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THE CHEMIST AND DRUGGIST

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Subscription, 10s. per annum, including Diary. Free the World over. Single Copies, 4d. each. Winter and Summer Issues, 1s. each. Post Free.

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OUR first consignment of this Season's Oil has now arrived from Norway, and we shall be pleased to forward samples and quotations on request.

Supplied in Barrels, Winchester Quarts, or packed in Bottles, with Chemist's Name and Address on labels.

Allen & Hanburys, Ltd., London.

Index and Buyers' Guide, pp. 7, 8, 9, 10, and 11.

WINDOW DISPLAYS

OF

WRIGHT'S COAL TAR SOAP

We beg to announce the following as the result of our Window Display Competition for 1908:

First Prize - £5.

Messrs. Neve & Co., Chemists, St. Leonard's-on-Sea.

Second Prize - £2.

Messrs. Matthews & Son, Chemists, Wanstead

Third Prize - £1.

Mr. C. D. Cumber, Chemist, Winton, Bournemouth.

5 Consolation Prizes of 10/6.

Mr. J. F. Dickenson, Chemist, Market Place, Mansfield.
Mr. H. Samuel, Chemist, Leighton Buzzard.
Mr. Mark Burgin, Chemist, York.
Mr. F. Wimshurst, Chemist, Bexhill-on-Sea.
Mr. De la Rue, Chemist, Guernsey.

We announce a similar series of Prizes for Displays during 1909, and shall be glad to correspond with you on the subject at your earliest convenience.

Value for Money

IN CONNECTION WITH
THE PURCHASE OF

Essential Oils.

WE again direct the attention of all consumers of Essential Oils to the importance of the guarantee given in our Price List, as follows :—

PURE ESSENTIAL OILS.

All Oils grouped under this heading are guaranteed to be absolutely pure, and are under the direct analytical control of Mr. E. J. PARRY, B.Sc., F.I.C., F.C.S. (Author of "The Chemistry of Essential Oils and Artificial Perfumes"), Thanet House, 56a Great Dover Street, London, S.E. Buyers are at liberty to send samples from our deliveries of any of these Oils to Mr. PARRY for analysis at our expense, and in case of dispute his analysis is to be binding on buyers and ourselves.

It is obvious that some sort of guarantee for buyers is necessary in view of the fact that Essential Oils are subjected to every conceivable form of adulteration, the sole object of which is to secure to the vendors an extra profit at the expense of the buyer. Highly-trained chemists now obtain remunerative employment in experimenting with a view to discovering chemical compounds which can be used as adulterants of Essential Oils. These adulterants cheapen the Oils, but do not interfere with the *usual* tests for purity, and therefore cannot be easily detected.

We shall be glad to give particulars of the adulterations we have recently met with to anyone interested, also to submit samples of any of our Pure Essential Oils for approval.

STEVENSON & HOWELL, LTD.

Southwark Street, London.

The Subscription List will Open on Monday, the 15th February, and Close on or before Wednesday, the 17th February, 1909.

NATIONAL DRUG & CHEMICAL COMPANY OF CANADA (LIMITED).

(Incorporated in Canada by Charter under the Companies Act, 1902)

CAPITAL

DIVIDED INTO

		£.	s.	d.
400,000 Six per Cent. Cumulative First Preference Shares of £1 each	=	**400,000**	**0**	**0**
AND				
15,500 Preference Shares of $100 each	=	**318,493**	**3**	**0**
25,000 Ordinary Shares of $100 each	=	**513,698**	**12**	**7**

Of which 11,764 Preference Shares of $100 each, and 13,357 Ordinary Shares of $100 each, have been issued and are fully paid up.

THE BANK OF LIVERPOOL Limited, THE UNION OF LONDON & SMITHS BANK Limited, London, MANCHESTER AND LIVERPOOL DISTRICT BANKING COMPANY Limited, and THE CANADIAN BANK OF COMMERCE

are authorised to receive Subscriptions for

300,000 of the above Six per Cent. Cumulative First Preference Shares of £1 each at par.

PAYABLE AS FOLLOWS :—

On Application 1/- per Share. On Allotment 4/- per Share.
On 31st March 5/- per share. On 30th April 10/- per Share.

Interest at **6** per cent. per annum will be allowed on instalments paid in advance.
50,630 First Preference Shares have already been issued, and the remaining 49,370 Shares are reserved for future issue, if required.

THE RIGHTS ATTACHING TO THE FIRST PREFERENCE SHARES ARE AS FOLLOW:

(*a*) The holders shall be entitled to receive out of the profits of the Company as a first charge a Cumulative Preferential Dividend at the rate of 6 per cent. per annum on the capital for the time being paid up, payable on the 1st July and 1st January in each year; the first dividend will be paid on the 1st July, 1909, calculated from the due dates of instalments.

(*b*) The holders shall be entitled to have the surplus assets on a winding-up applied first to the payment in full of the principal of the said First Preference Shares at par with all arrears of dividend.

(*c*) So long as any of the First Preference Shares remain outstanding, the Company shall annually pay to Trustees the sum of at least £5,000, together with a sum increasing annually equal to the dividends which would have been payable on all shares previously cancelled, all such sums to be used by the Trustees for the purchase of First Preference Shares at not exceeding 2*s*. per Share premium. The minimum sum available for redemption will be from £5,000 in the first year rising to £10,000 per annum in from 13 to 15 years, and to £20,000 per annum in from 25 to 28 years. The Company has the right, after the expiration of five years from the issue of the First Preference Shares, to redeem any or all of the First Preference Shares at a Premium of 2*s*. per Share.

(*d*) The Company has agreed with the trustees for the First Preference Shareholders that except for the purpose of redeeming all the then outstanding Shares no Debentures or Bonds specifically charging the assets of the Company shall be created without the sanction of a Resolution passed at a separate meeting of the holders of First Preference Shares by a majority of the holders of such shares present in person or by proxy at such meeting holding in the aggregate not less than three fourths in value of the First Preference Shares then outstanding.

Directors.

DAVID WESLEY BOLE	MONTREAL (*President*).
WILLIAM WALTER BOLE	TORONTO (*Manager Proprietary Department*).
ALFRED BICKERTON EVANS (*Director of Evans Sons Lescher & Webb Limited*)	MONTREAL (*Second Vice-President*).
WILLIAM SCOTT ELLIOT	TORONTO (*Inspector*).
WILLIAM HENDERSON	VANCOUVER.
THOMAS MORRISON HENDERSON	VANCOUVER.
WILLIAM SIMONS KERRY	MONTREAL (*Secretary*).
JAMES WILSON KNOX	MONTREAL (*Vice-President*).
JAMES MATTINSON	MONTREAL.
LOUIS JULIUS MYLIUS	HALIFAX.
WILLIAM CHARLES NIBLETT	HAMILTON.
FRANCIS COOK SIMSON	HALIFAX.
CHARLES WIDDRINGTON TINLING	MONTREAL (*General Manager and Treasurer*).
THEOPHILUS HATTON WARDLEWORTH	MONTREAL (*General Purchasing Agent*).
WILLIAM H. WEBB	HALIFAX.

Trustees for First Preference Shareholders.

JOHN JAMES EVANS, J.P., *Chairman of Evans Sons Lescher and Webb Limited, Wholesale Druggists*, LIVERPOOL and LONDON.
JAMES HOPE SIMPSON, J.P., *General Manager of the Bank of Liverpool Limited*, 7 WALTER STREET, LIVERPOOL.
DAVID WESLEY BOLE, *President of the Company*, MONTREAL, CANADA.

Bankers.

BANK OF LIVERPOOL LIMITED, LIVERPOOL and Branches.
THE UNION OF LONDON & SMITHS BANK LIMITED, PRINCES STREET, E.C., and branches.
MANCHESTER AND LIVERPOOL DISTRICT BANKING COMPANY LIMITED, MANCHESTER, LONDON, LIVERPOOL and Branches.
THE CANADIAN BANK OF COMMERCE, 2 LOMBARD STREET, LONDON; and in CANADA.

Solicitors.

WORTHINGTON EVANS, DAUNEY & CO., 27, NICHOLAS LANE, LONDON, E.C.
WHITLEY & CO., 41 CASTLE STREET, LIVERPOOL.
LEES HOBSON & STEPHENS, HAMILTON, ONTARIO, CANADA.

Brokers.

PARR & RAE, QUEEN INSURANCE BUILDINGS, and STOCK EXCHANGE, LIVERPOOL.
GEO. WHITEHEAD & CHOWN, 23 BUCKLERSBURY, and STOCK EXCHANGE, LONDON, E.C.

Auditors: MACINTOSH & HYDE, CHARTERED ACCOUNTANTS, MONTREAL.
Head Offices: 32 to 36, ST. GABRIEL STREET, MONTREAL.
British Representatives: WHITLEY & CO., *Solicitors*, 41 CASTLE STREET, LIVERPOOL.
Transfer Office (*pro tem.*): CHALMERS, WADE & CO., *Chartered Accountants*, 5 FENWICK STREET, LIVERPOOL.

PROSPECTUS.

THE Company was incorporated on the 9th November, 1905, as an amalgamation of 18 wholesale houses and 13 retail stores, and carries on the businesses of Wholesale Druggists, Manufacturers of Pharmaceutical and Chemical Preparations, Drug and Spice Millers, and Dealers in Patent Medicines, Druggists' Sundries and Photographic Materials.

The main business of the Company is the Manufacture and Sale of Articles which are prime necessities of life, and this trade, while bound to increase with the growth of population, is from its nature largely exempt from the influence of the general depression which other trades have to face periodically.

The Company is the sole agent for the various specialities of Evans Sons Lescher & Webb Limited for the Dominion of Canada, and the Company has a monopoly in Canada for many well-known proprietary articles.

The present issue is made for the purpose of funding the Company's loans from Bankers and for facilitating the extension of its business.

The following letter has been addressed by the President of the Company to the Canadian Bank of Commerce in reference to the present issue:—

To MESSRS. THE CANADIAN BANK OF COMMERCE. HOTEL METROPOLE, LONDON, W.C.,
30th January, 1909.

GENTLEMEN,

Referring to the proposed issue of First Preference Shares of our Company, of which 50,630 will be issued to Evans Sons Lescher & Webb Limited, of London and Liverpool, and 300,000 shares will be offered for public subscription, I beg to inform you of the following facts:—

The Company was incorporated under the laws of Canada 9th November, 1905, and commenced operations 1st February, 1906.

The objects of the Company were to bring the wholesale drug trade of Canada closer together, to economise in management, and to manufacture chemicals, pharmaceuticals, and other products for our own needs, instead of purchasing from outsiders and importing from abroad, especially Germany and the United States, as formerly. With these objects in view, the Company purchased as going concerns and amalgamated the following wholesale drug businesses:—

NAMES.	CITY.	PROVINCE.	
Brown & Webb	Halifax	Nova Scotia	Established about 100 years ago.
Simson Bros. & Co. Ltd.	Halifax	Nova Scotia	" 17 " "
Hattie & Mylius Co. Ltd.	Halifax	Nova Scotia	" 8 " "
T. B. Barker & Sons Ltd.	St. John	New Brunswick	" 60 " "
McDermiad Drug Co. Ltd.	St. John	New Brunswick	" 8 " "
Kerry, Watson & Co.	Montreal	Quebec	" 94 " "
Evans and Sons Ltd.	Montreal	Quebec	" 41 " "
Lyman-Knox & Co. Ltd.	Montreal	Quebec	" 21 " "
Henry Skinner & Co. Ltd.	Kingston	Ontario	" 50 " "
Elliot & Co. Ltd.	Toronto	Ontario	" 70 " "
Lyman-Knox & Clarkson	Toronto	Ontario	" 15 " "
J. Winer & Co. Ltd.	Hamilton	Ontario	" 80 " "
Dominion Drug Co. Ltd.	Hamilton	Ontario	" 25 " "
Kerry, Watson & Co.	London	Ontario	" 60 " "
Bole Drug Co. Ltd.	Winnipeg	Manitoba	" 10 " "
Canada Drug and Book Co. Ltd.	Regina	Saskatchewan	" 26 " "
Bole Drug Co. Ltd.	Calgary	Alberta	" 5 " "
Canada Drug & Book Co. Ltd.	Nelson	British Columbia	" 15 " "
Canada Drug & Book Co. Ltd.	Revelstoke	British Columbia	" 10 " "
Henderson Bros. Ltd.	Vancouver	British Columbia	" 15 " "
Henderson Bros. Ltd.	Victoria	British Columbia	" 46 " "

and the business of McDowall-Atkins, Watson Co. Ltd., of Vancouver, comprising 10 retail stores, which were affiliated with Henderson Bros. Ltd.

Since amalgamation we have merged the businesses at Halifax, St. John, and Toronto into one house in each city, and established a new house in the capital city of Ottawa. We have also concentrated our efforts in Montreal by bringing two houses together into the building of Evans and Sons Ltd., which has been enlarged and improved at an expense of $70,000, and made the headquarters, warehouse and offices of the Company.

As the retail business was not a part of our scheme we sold off the retail stores, leaving (as you will observe by a glance at the map of Canada) a distributing depot in the commercial centre of every province of the Dominion, commencing at Halifax, Nova Scotia, and extending to Victoria, British Columbia, a distance of nearly 4,000 miles.

Branch Managers all operate under a uniform system and report to the General Manager, monthly, all essential details.

The volume of our business in the last financial year showed a large increase over the total of the houses during the last year of their individual existence.

Economy of working was of course an important object, but our chief desire was to concentrate efforts upon the sale of chemicals, pharmaceuticals, and proprietary articles which the Company intended to manufacture.

I am glad to inform you that this, the manufacturing end of our business, has already spelled success, the sales of these goods having nearly doubled during the last year. We established central Laboratories in Montreal, and a proprietary medicine department in Toronto. I might mention that the natural jealousies existing between houses before the amalgamation prevented the profitable manufacture of chemicals in Canada; but now having the united service of sixteen large distributing centres, this branch of the business will be most profitable.

The customers now number upwards of 13,000 and the employees about 700, including 67 travelling salesmen.

The Company's assets on the 31st January, 1908, the date of the last balance sheet, include the following:—

Stock of Drugs, Chemicals, &c.	$1,769,688.79 =	£363,634	13	8
Real Estate and Buildings, *less* **Mortgages thereon**	424,103.83 =	87,144	12	6
Book Debts	902,467.92 =	185,438	12	3
Plant, Advertising, Furniture, Fixtures, &c.	148,932.94 =	30,602	13	2
		£666,820	11	7
Less **Trade and other Liabilities**	505,767.09 =	103,924	14	11
Surplus, exclusive of Goodwill, Trade Marks, &c.		**£562,895**	**16**	**8**

The above surplus is without taking into account £251,570 8*s.* 4*d.*, which was outstanding on loan from the Company's Bankers on the 31st January, 1908; the amount now outstanding is, approximately, the same, and will be repaid out of the proceeds of the present issue.

The books of the Company have been audited by Messrs. Macintosh and Hyde, Chartered Accountants, Montreal, and their annexed certificate shows that the profits earned by the Company during the two years since its incorporation to 31st January, 1908, have been $406,716.41, or £83,571 17*s.* 5*d.*, after paying all remuneration due to Directors and officials.

These figures are arrived at before charging interest on the loan of £251,570 8*s.* 4*d.* from the Company's Bankers, which it is intended to repay when the present issue is subscribed.

There is ample margin for providing the Sinking Fund and the dividend on the present issue.

Owing to the rise in values of real estate in the West, our Managers report that the value of our real estate is fully $60,000 in excess of the value at which it stands in our balance sheet.

The amalgamation was carried out by the issue of Preference and Ordinary Shares to the owners of the various businesses, the valuable goodwill was satisfied by allotment of Ordinary Shares.

I have already referred to the increase in our general sales, and especially the sales of our own manufactured articles, and in this connection I would say that after careful consideration I am satisfied that the profits of the present year will exceed the profits of either of the two preceding years. An exhaustive analysis of our sales and general trade gives us a clear and fair means of ascertaining the trend of the Company's trade; and upon this analysis we make the prediction that the next five years will show a heavy increase in business, which is reasonably expected in view of the tremendous development going on in Canada at the present time. I send you herewith a map showing the location of the Company's warehouses and factories, and cuts of same, which may be interesting to British investors.

Yours truly, D. W. BOLE, *President.*

The certificate of Messrs. Macintosh & Hyde, referred to in Mr. Bole's letter, is as follows:—

STANDARD BUILDINGS, 157, ST. JAMES STREET, MONTREAL,
19th January, 1909

The Directors of The National Drug & Chemical Company of Canada, Ltd., Montreal.

Gentlemen,

We have examined and audited the Books and Accounts of your Company, and we certify that the net profits earned by the Company during the two years since its incorporation to the 31st January, 1908, have been $406,716.41 equal to £83,571 17*s.* 5*d.* after paying all remuneration due to Directors and Officers. These profits are arrived at before charging interest on the loan amounting at 31st January, 1905, to $1,224,309.34 equal to £251,570 8*s.* 4*d.* from the Company's Bankers, which it is intended to repay out of the proceeds of the First Preference shares your Company is about to issue. Of the remaining profits, $99,750.00 equal to £20,496 11*s.* 7*d.* have been distributed in dividends; $38,237.43 equal to £7,857 0*s.* 2*d.* have been applied in writing down the expenses of incorporation, etc., and $143,384.84 or £29,462 12*s.* 10*d.* have been carried forward.

Yours faithfully,
MACINTOSH & HYDE, *Chartered Accountants.*

Copies of the Company's Charter (or Letters Patent) and Supplementary Letters Patent, the Company's Bye-Laws and the Trust Deed affecting the Shares of the present issue may be seen at the Offices of the Company's Solicitors at any time during business hours while the lists are open.

On the incorporation of the Company the business of Evans and Sons Limited, established in Montreal some 40 years ago, was transferred to the Company for Shares in the Company.

By reason of this and subsequent arrangements, Evans Sons Lescher & Webb Limited and certain of its Directors hold 50,630 First Preference Shares of £1 each, and the same Directors hold 1,453 Ordinary Shares of $100 each, and are thus largely interested in the future of the Company.

Application will be made in due course to the Committees of the London and Liverpool Stock Exchanges for special settlements in and quotations of the present issue.

The Shares of the present issue will be transferable on a British Register by the usual Form of Transfer.

Applications for Shares should be made on the accompanying form, and sent to the Company's Bankers, together with a cheque for the amount payable on application. In cases where no allotment is made the application moneys will be returned in full, and where the number of Shares allotted is less than the number applied for, the excess will be applied in payment of the instalment payable on allotment and the balance returned.

A brokerage of 3*d.* per Share will be paid on all Shares allotted on Forms bearing brokers' name stamps.

Failure to pay any instalment when due will render the previous payments liable to forfeiture.

Prospectuses and Application Forms may be obtained at the Offices of Evans Sons Lescher & Webb Limited, 56 Hanover Street, Liverpool, and 60 Bartholomew Close, London, E.C., and from the Company's Bankers or Brokers.

Dated, February 8th, 1909.

When Ordering Pepsin Specify Armour's!

It is the best the market affords.

"Armour" Pepsins are high-grade, non-hygroscopic, perfectly aseptic, free from objectionable odour and taste, and

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EVERY PARTICULAR.

Supplied in 2500, 3000, and 5000 Tests.

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Atkinson, G., & Co.
Boehringer, C. F., & Soehne
Boehringer, C. H., Sohn
Hoffmann-La Roche, F., & Co.
Howards & Sons, Ltd.
Macfarlan, J. F., & Co.
Merck, E.
Morson, T., & Son
Smith, T. & H., Ltd.
Whiffen, Thos.
Wink, J. A., & Co.
Zimmermann, C., & Co.

AMMONIA AND ITS SALTS
Brown & Blackburn
Burt, Boulton & Haywood, Ltd.
Davy Hill & Hodgkinsons, Ltd.
Nichols Chemical Co., Ltd.
Scrubb & Co., Ltd.
White, A., & Sons

ANÆSTHETICS
Duncan, Flockhart & Co.
Macfarlan, J. F., & Co.
Smith, T. & H., Ltd.
Zimmermann, C., & Co.
(*See also* CHLOROFORM)

ARTIFICIAL LIMBS
Haywood, J. H.

ANTIMONY AND ITS SALTS
Atkinson, G., & Co.
May & Baker, Ltd.
White, A., & Sons

ANTI-RHEUMATIC RINGS
Burge, Warren & Ridgley, Ltd.
Whitby & Co.

AUCTIONEERS
Jackson & Co.

BALLROOM-FLOOR POLISH
Lofthouse & Saltmer
Woolley, J., Sons & Co., Ltd.

BATH GLOVES
Hovenden, R., & Sons, Ltd.
Solport Bros.

BAROMETERS
Darton, F., & Co.

BATHING CAPS
Maw, S., Son & Sons
Schutze, F., & Co.

BISMUTH SALTS
Alliance Drug & Chem. Co.
Howards & Sons, Ltd.
May & Baker, Ltd.
Merck, E.
Morson, T., & Son
Tyrer, T., & Co., Ltd.
White, A., & Sons

BOOKS AND MAGAZINES
Analytical Notes (Evans)
Churchill, J. & A.
Ilford "Photo Manual."
Lewis, H. K.
Martindale's "Extra Phar."
Pitman, Sir Isaac, & Sons, Ltd.
"Prescriber, The"
Scott, Greenwood & Co.
Squire's "Companion"

BOTTLES
Ayrton, Saunders & Co., Ltd.
Barnett & Foster
Beatson & Co.
Brettit, E., & Co., Ltd.
Chemists' Co-operative Wholesale
Fecher, M. J.
Isaacs & Co.
Johnsen & Jorgensen, Ltd.
Kilner Bros., Ltd.
Maw, S., Son & Sons
May, Roberts & Co.
Poths, H., & Co.
Rose, Carl
Taylor, F. H., & Sons
Toogood, W., Ltd
Youldon, E., Ltd.

BORAX
Howards & Sons, Ltd.

BINOCULARS
Darton, F., & Co.
Raphaels, Ltd.

BOTANIC DRUGGISTS
Newball & Mason
Potter & Clarke, Ltd.

BOXES
Ford, Shapland & Co.
Harrison & Waide
Hertz & Co.
May, Roberts & Co.
Robinson & Sons, Ltd.
Rogers & Co.
Stipendum Stopper Co.

BROMINE AND BROMIDES
Alliance Drug & Chemical Co.
Atkinson, G., & Co.
Howards & Sons, Ltd.
Merck, E.

BRUSHES
Addis, W., & Son
Bidwell, Bidwell & Co.
Fecher, M. J.
Hovenden, R., & Sons, Ltd.
Kent, G. B., & Sons, Ltd.
Maw, S., Son & Sons
May, Roberts & Co.
Meyer-Sander Dental Supply Co.
Rigby Battcock, Ltd.
Sterkel, H. L.
Tilbury, W. R., & Co.

BUTTER COLOURING
Fullwood, R. J., & Bland
Oldfield, Pattinson & Co.

CACHETS
Christy, T., & Co.

CAMOMILES
Boehm, F., Ltd.
Carmichael, F. J., & Co.

CAMPHOR
Alliance Drug & Chemical Co.
Atkinson, G., & Co.
Chemists' Co-operative Wholesale
Howards & Sons, Ltd.
May & Baker, Ltd.
Whiffen, Thos.

CAPPING MATERIALS
Viscose Co., Ltd.

CAPS FOR BOTTLES, &c.
Darter, Wilkinson & Co.
Fecher, M. J.
Renter, R. J.
Viscose Co., Ltd. (self-fixing)

CAPSULES
Allen & Hanburys, Ltd.
Baiss Bros. & Stevenson, Ltd.
Davies, Sons & Co.
Denoual, J., & Co.
Duncan, Flockhart & Co.
Hearon, Squire & Francis, Ltd.
Lloyd, T. Howard, & Co.
Mason Bros. & Chapman
Mawson & Co.
Pill, Tablet, & Capsule Alliance
Tye, J., & Son
Wand Mfg. Co.
Wander, A.
Warrick Bros.
Woolley, J., Sons & Co.

CAPSULING MACHINE
Melin, C.

CARBOLIC ACID
Alliance Drug & Chem. Co.
Burt, Boulton & Haywood, Ltd.
Calvert, F. C., & Co.
Chemists' Co-operative Wholesale
Hoffmann-La Roche, F., & Co.
Sanitas Co., Ltd.
(*See also* DISINFECTANTS)

CARTONS
Ford, Shapland & Co
Harrison & Waide

CASH TILLS
British Machine Co., Ltd.
O'Brien, T.

CASTOR OIL
Boehm, F., Ltd.
Hull Oil Mfg. Co., Ltd.
Premier Oil Extract. Mills, Ltd.

CAUSTIC SODA
Brunner, Mond & Co., Ltd.
United Alkali Co., Ltd.

CEMENTS
Kay Bros., Ltd.

CHALK, PRECIPITATED
Levermore, A., & Co.
Mumford, G. S., & Sons
Nichols Chemical Co., Ltd.
Sturge, John & E.

CHAMOIS
Cartwright, A. S., Ltd.
Cresswell Bros. & Schmits
Internatl. Sponge Importers
Kent, G. B., & Sons, Ltd.
Solport Bros.

CHEMICAL MFRS.
Atkinson, G., & Co.
Boehm, F., Ltd.
Boehringer, C. F., & Soehne
Bramwell, E., & Son
British Drug Houses, Ltd.
Brunner, Mond & Co., Ltd.
Burgoyne, Burbidges & Co.
Burroughs Wellcome & Co.
Davy Hill & Hodgkinsons
Harrington Bros., Ltd.
Howards & Sons, Ltd.
Knoll & Co.
Macfarlan, J. F., & Co.
May & Baker, Ltd.
Merck, E.
Morson, T., & Son
Reitmeyer & Co.
Schimmel & Co.
Smith, B. A., & Co.
Smith, T. & H., Ltd.
Shamer, Dr. Richard
Sturge, John & E.
Tyrer, T., & Co., Ltd.
Washington Chemical Co.
Whiffen, Thos.
White, A., & Sons
Wink, J. A., & Co.
Zimmermann, C., & Co.

CHEMISTS, MFG.
Allen, Stafford, & Sons, Ltd.
Anglo-American Pharm. Co., Ltd.
Beetham, M., & Son
Bell, John, & Co.
Blackie, R.
British Drug Houses, Ltd.
Burgoyne, Burbidges & Co.
Burroughs Wellcome & Co.
Bush, W. J., & Co., Ltd.
Curling, G. Wyman, & Co.
Davenport, J. T., Ltd.
Duncan, Flockhart & Co.
Evans Sons Lescher & Webb, Ltd.
Fletcher, Fletcher & Co.
Hay, William, Ltd.
Hewlett, C. J., & Son
Kutnow, S., & Co., Ltd.
Lorimer & Co., Ltd.
Mandall & Co., Ltd.
Martindale, W.
Newball & Mason
Newbery, F., & Sons, Ltd.
Oldfield, Pattinson & Co.
Oppenheimer, Son & Co.
Owbridge, W. T., Ltd.
Parke, Davis & Co.
Potter & Clarke
Randall & Son, Ltd.
Ransom, W., & Son
Reitmeyer & Co.
Sankyo & Co.
Shirley Bros., Ltd.
Southall Bros. & Barclay, Ltd.
Squire & Sons
Standard Tablet & Pill Co.
Stevenson & Howell, Ltd.
Thompson & Capper
Wand Mfg. Co.
Woolleys, Ltd.
(*See also* WHOLESALE)

CHEST PROTECTORS
Schutze, F., & Co.
Solport Bros.
Wood, Vincent

CHLORIDE OF LIME
Brunner, Mond & Co., Ltd.

CHLOROFORM
Duncan, Flockhart & Co.
Macfarlan, J. F., & Co.
May & Baker, Ltd.
Morson, T., & Son
Smith, T. & H., Ltd.

CIGARS AND CIGARETTES
Hovenden, R., & Sons, Ltd
Singleton & Cole, Ltd.

CITRIC ACID AND CITRATES
Davy Hill & Hodgkinsons, Ltd.
Howards & Sons, Ltd.
Lloyd, T. H., & Co.
Morson, T., & Son
Sturge, John & E.

CLINICAL THERMOMETERS
Burge, Warren & Ridgley, Ltd.
Darton, F., & Co.
Hicks, J. J.
Maw, S., Son & Sons
Newbery, F., & Sons, Ltd.
Rose, Carl
Zeal, G. H

CLOTH BALLS
Senier, A., & Co.

COCOA
Cadbury Bros., Ltd.
Frame Food Co.
International Plasmon, Ltd.
Oppenheimer, Son & Co., Ltd.

COAL TAR SPECIALITIES
Wright, Layman & Umney, Ltd.

COD-LIVER OIL
Aarsæther, Brödr.
Albrethson, A., & Co.
Allen & Hanburys, Ltd.
Alliance Drug & Chem. Co.
Baiss Bros. & Stevenson, Ltd.
Davy Hill & Hodgkinsons, Ltd.
Devold, Peder
Evans Sons Lescher & Webb, Ltd.
Hearon, Squire & Francis, Ltd.
Lloyd, T. Howard, & Co.
Southall Bros. & Barclay, Ltd.
Wright, Layman & Umney, Ltd.
Zimmermann, C., & Co.

COLOURS, BEVERAGE, ETC.
Cresp-Martinenq
Stevenson & Howell, Ltd.
(*See also* DAIRY ADJUNCTS)

COMBS
Hovenden, R., & Sons, Ltd.
Kent, G. B., & Sons, Ltd.
Maw, S., Son & Sons
May, Roberts & Co.
Newbery, F., & Sons, Ltd.
Sangers'

CORKS
Mitchell, N. W., & Sons, Ltd.

COUNTER ADJUNCTS
Evans Sons Lescher & Webb, Ltd.

COUNTER SPECIALITIES
Allen & Hanburys, Ltd.
Davy Hill & Hodgkinsons, Ltd.
Hewlett, C. J., & Son
Newbery, F., & Sons, Ltd.
Southall Bros. & Barclay, Ltd.
Woolleys, Ltd.

CREAM OF TARTAR
Davy Hill & Hodgkinsons, Ltd.

CREOSOTE
Baiss Bros. & Stevenson, Ltd.
Burt, Boulton & Haywood
Morson, T., & Son

CYANIDES
May & Baker, Ltd.

DAIRY ADJUNCTS
Benger's Food, Ltd.
Fullwood, R. J., & Bland
Tomlinson & Hayward, Ltd.

DEAFNESS AIDS
Hawksley, T.

DENTAL MATERIALS
Edwards, W., & Co., Ltd.

DENTAL MECHANICS
Fentiman, A. G.
Fentiman, A. J., & Co.
Halder, E. C.
Wardale & Co.

DENTIFRICES
Anglo-American Dentifrice Co.
Beecham, T.
Beiersdorf, P., & Co.
Bell, John, & Co.
Blackie, R.
Burroughs Wellcome & Co.
Calvert, F. C., & Co.
Christy, T., & Co.
Cook, E., & Co., Ltd.
Eucryl, Ltd.
Jewsbury & Brown
Lambert Pharmacal Co.
McKesson & Robbins
Maw, S., Son & Sons
Meyer-Sander Dental Supply Co.
Newbery, F., & Sons, Ltd.
Odol Chemical Works
Parke, Davis & Co.
Sanitas Co., Ltd.
Sozodont (Richards)
Standard Tablet & Pill Co.
Woods, W., & Son

DIABETIC BREAD AND FOOD
Callard & Co.
Van Abbott, G., & Sons

DISINFECTANTS
Baiss Bros. & Stevenson, Ltd.
Burgoyne, Burbidges & Co.
Burt, Boulton & Haywood, Ltd.
Calvert, F. C., & Co.
Condy & Mitchell, Ltd.
Dalmas, A. de St., & Co.
Edwards, W., & Son
Jervell & Co., Ltd.
Jeyes' Sanitary Compounds, Ltd.
Kay Bros., Ltd.
Lambert Pharmacal Co.
McDougall Bros.
Rowan, A., & Brother
Sanitas Co., Ltd.
Standardised Disinfectants Co., Ltd.
Tomlinson & Hayward, Ltd.
Tugwood & Wilton
Willows, Francis B. & T.
Wright, Layman & Umney, Ltd.
Zimmermann, C., & Co.

DIGESTIVE PRODUCTS
Armour & Co., Ltd.
Benger's Food, Ltd.
Fairchild Bros. & Foster
Parke, Davis & Co.
Reitmeyer & Co.
Squire & Sons
Zimmermann, C., & Co.

DOG BISCUITS AND PREPS.
Spratt's Patent, Ltd.

DRUGGISTS' SUNDRIES
Ayrton, Saunders & Co., Ltd.
Barclay & Sons, Ltd.
Berliner, Arthur
Burge, Warren & Ridgley
Burgoyne, Burbidges & Co.
Chemists' Co-operative Wholesale
Christy, T., & Co.
Cook, Alfred, & Co.
Curling, G. Wyman, & Co.
Edwards, W., & Son
Evans Sons Lescher & Webb
Fecher, M. J.
Hewlett, C. J., & Sons
Hovenden, R., & Sons, Ltd.
Improved Mailing-case Co.
Ingram, J. G., & Son
Johnsen & Jorgensen, Ltd.
Lennon, Ltd.
Maw, S., Son & Sons
May, Roberts & Co.
Murdoch, John, & Co.
Newbery, F., & Sons, Ltd.
Poths, H., & Co.
Quelch, H. C., & Co.
Reuter, R. J.
Sangers'
Schutze, F., & Co.
Seabury & Johnson
Solport Bros.
Southall Bros. & Barclay, Ltd.
Sterkel, H. L.
Tidman & Son, Ltd.
Toogood, W., Ltd.
Viscose Co., Ltd.
Wood, Vincent
Woolley, J., Sons & Co.

DRUGS, CRUDE
Curling, G. Wyman, & Co.
Potter & Clarke, Ltd.
Ransom, W., & Son

DYES
Judson, D., & Son
Whitaker & Co.

EAU DE COLOGNE
Farina, J. M.
Farina, J. M. (No. 4)
Fickus, Courtenay & Co.
McCracken, J. & R.
Reuter, R. J.
Schutze, F., & Co.
Van Oppen, Ross & Co.

EDUCATIONAL INSTITUTIONS
Bath and West of Engalnd College of Pharmacy
Birmingham and Midland College of Pharmacy
City of London College
Glasgow School of Pharmacy
Leeds College of Pharmacy
Liverpool School of Pharmacy
London College of Pharmacy
Manchester College of Pharmacy
Muter's (So. Lond.) School of Pharmacy
North of England School of Pharmacy
Northern College of Pharmacy
Pelman School of Memory
School of Pharmacy
South of England College of Pharmacy
Westminster College of Pharmacy

EMULSIONS, COD-LIVER OIL, ETC.
Allen & Hanburys, Ltd.
Baiss Bros. & Stevenson, Ltd.
Blackie, R.
Boulton, J., & Co.
Burgoyne, Burbidges & Co.
Davy Hill & Hodgkinsons
Evans Sons Lescher & Webb, Ltd.
Faulding, F. H., & Co.
Harker, Stagg & Morgan, Ltd.
Hearon, Squire & Francis, Ltd.
Lorimer & Co., Ltd.
Oldfield, Pattinson & Co.
Parke, Davis & Co.
Woolleys, Ltd.

ESSENCES, CONCRETE
Lautier Fils
Murray, O., & Co., Ltd.
Roure-Bertrand fils

EFFERVESCENT PREPS
Allen & Hanburys, Ltd.
Bishop, Alfred, Ltd.
Blackie, R.
Bristol-Myers Co.
Cox, A. H., & Co., Ltd.
Davy Hill & Hodgkinsons
Goodall, Backhouse & Co.
Kutnow, S., & Co., Ltd.
Lloyd, T. Howard, & Co.
Lorimer & Co., Ltd.
Martindale, W.
Newball & Mason
Parke, Davis & Co.
Potter & Clarke
Shirley Bros.
Standard Tablet & Pill Co.
Sturge, John & E.
Tidman & Son, Ltd.
Tyrer, T., & Co., Ltd.
Wright, Layman & Umney

ELASTIC HOSIERY
Ayrton, Saunders & Co., Ltd.
Berliner, Arthur
Haywood, J. H.
Jackson, Röhrs, & Co.
Maw, S., Son & Sons
Wood, Vincent

EMERY AND CLOTH
Oakey, J., & Sons, Ltd.

ENEMAS
Armstrong, M. D.
Bailey, W. H., & Son
Baird Bros.
Burge, Warren & Ridgley
Davol Rubber Co.
Ingram, J. G., & Son
Maw, S., Son & Sons
Toogood, W., Ltd.
Warne, W., & Co., Ltd.

EPSOM SALTS
Howards & Sons, Ltd.

ESSENCES, SOL. AND FRUIT
Alliance Drug & Chem. Co.
Baiss Bros. & Stevenson, Ltd.
Barnett & Foster
Bush, W. J., & Co., Ltd.
Cresp-Martineuq
Evans Sons Lescher & Webb
Hay, Wm., Ltd.
London Essence Co.
Lorimer & Co., Ltd.
Newball & Mason
Roure-Bertrand fils
Spencer, J., Son & Co.
Stevenson & Howell, Ltd.
Whittaker, A.

ETHERS
Baiss Bros. & Stevenson, Ltd.
Howards & Sons, Ltd.
Macfarlan, J. F., & Co.
May & Baker, Ltd.
Tyrer, T., & Co., Ltd.
White, A., & Sons

EUCALYPTUS OIL
Alliance Drug & Chem. Co.
Baiss Bros. & Stevenson, Ltd.

ETHYL CHLORIDE
Duncan, Flockhart & Co.

EXTRACT OF HERBS
Newhall & Mason
Potter & Clarke

EXTRACTS (MEDICINAL)
Allen, Stafford, & Sons, Ltd.
Chemists' Co-operative Wholesale
Hewlett, C. J., & Son
Ransom, W., & Son
(*See also* Wholesale Druggists)

FEEDING BOTTLES
Breffit, E., & Co., Ltd.
Fecher, M. J.
Hovenden, R., & Sons, Ltd.
Kilner Bros., Ltd.
Maw, S., Son & Sons
Renter, R. J.
Sangers'
Savory & Moore, Ltd.
Southall Bros. & Barclay, Ltd.

FERTILIZERS
With's Chemical Manure Co.

FILLING MACHINES
Roberts' Pat. Fill. Machine Co.

FOODS, SPECIAL
Allen & Hanburys, Ltd.
Ayrton, Saunders & Co., Ltd.
Benger's Food, Ltd.
Brand & Co., Ltd.
Callard & Co.
Fairchild Bros. & Foster
Frame Food Co., Ltd.
International Plasmon, Ltd.
Lemco, Ltd.
Meuley & James, Ltd.
Natural Food Co., Ltd
Ridge's Royal Food Mills
Sanatogen Co.
Wander, A.

FILTERS (WATER)
Berkefeld Filter Co., Ltd.

FLY CATCHERS
Smith, J. H., & Co.
Strong, Christy

FOODS, INFANTS'
Allen & Hanburys, Ltd.
Benger's Food, Ltd.
Davy Hill & Hodgkinsons
Frame Food Co., Ltd.
Lofthouse & Saltmer
Natural Food Co., Ltd.
Willows, Francis B. & T.

FORMALDEHYDE
Andesol Works
Burt, Boulton & Haywood
Tugwood & Wilton

FULLER'S EARTH
Mumford, G. S., & Sons

FUMIGATORS
Sanitas Co., Ltd.

GELATIN AND GLUE
Boehm, F., Ltd.

GLAUBER'S SALT
Bramwell, E., & Son
Howards & Sons, Ltd.
Nichols Chemical Co., Ltd.

GLYCERIN
Alliance Drug & Chem. Co.
Boehm, F., Ltd.
Price's Patent Candle Co.

GOLD PAINT
Judson, D., & Son

GRINDERS
Allen, Stafford, & Sons, Ltd.
Goodall, Backhouse & Co.
Willows, Francis B. & T.

GUMS
Fink, F., & Co.

HAIR PREPARATIONS
Capsuloid Co., Ltd.
Daisy, Ltd.
Edwards' "Harlene" Co.
Harker, Stagg & Morgan
"Nyto" Co.
Robare's Aureoline
Rowland, A., & Sons
Woolleys, Ltd.

HAT DYES
Whitaker & Co.

HERBS
Potter & Clarke
United Drug Co.

HOMŒOPATHIC MEDICINES
Ashton & Parsons, Ltd.
Epps, J., & Co., Ltd.
Keene & Ashwell, Ltd.
Leath & Ross

HOT-WATER BOTTLES
Berliner, Arthur
Burge, Warren & Ridgley
Dunlop Rubber Co., Ltd.
Fulham Pottery & Cheavin Filter Co., Ltd.
Maw, S., Son & Sons
May, Roberts & Co.
Schutze, F., & Co.
Southall Bros. & Barclay
Wood, Vincent

HOTELS
Esmond Hotel
Kingsley Hotel
Thackeray Hotel

HYDROGEN PEROXIDE
May & Baker, Ltd.
Sanitas Co., Ltd.
Tyrer, T., & Co., Ltd.

HYPOPHOSPHITES
May & Baker, Ltd.
Merck, E.
Tyrer, T., & Co., Ltd.

INHALERS
Christy, T., & Co.
Fecher, M. J.
Sanitas Co., Ltd.

INK
Bewley & Draper, Ltd.
Hickisson, A. B.

INSECT POWDER
Boehm, F., Ltd.
Carmichael, F. J., & Co.
Shirley Bros., Ltd.
Smith, B. A., & Co.

INSECTICIDES
Acme Chemical Co., Ltd.
Corry & Co., Ltd.
Smith, B. A., & Co.
Tomlinson & Hayward, Ltd.
Woolleys, Ltd.

IODINE AND IODIDES
Atkinson, G., & Co.
Howards & Sons, Ltd.
Merck, E.
Morson, T., & Son
Whiffen, Thos.
Wink, J. A., & Co.

IROSYL
Fletcher, Fletcher & Co.

JARS AND POTS
Breffit, E., & Co., Ltd.
Cook, A., & Co.
Johnsen & Jorgensen, Ltd.
Kilner Bros., Ltd.
Maw, S., Son & Sons
Poths, H., & Co.
Renter, R. J.
Stipendum Stopper Co.
Toogood, W., Ltd.

LACTOBACIL. EDUCTS
Wilcox, Jozeau & Co.

LAMPS, DISINFECTING
McDougall Bros.

LANOLINE
Burroughs Wellcome & Co.
Christy, T., & Co.
Sangers'

LANTERNS
Butcher, W., & Sons
Reynolds & Branson, Ltd.

LARD
Chemists' Co-operative Wholesale
Ewen, J., & Sons

LEATHERS
Solport Bros.

LIME JUICE AND CORDIAL
Evans Sons Lescher & Webb
Goodall, Backhouse & Co.
Idris & Co., Ltd.

LINSEED, CRUSHED, ETC.
Allen, Stafford, & Sons
Alliance Drug & Chem. Co.
Mumford, G. S., & Sons

LIQUORICE JUICE
Alliance Drug & Chem. Co.
Boehm, F., Ltd.
Burgoyne, Burbidges & Co.
Evans, Gray & Hood
Evans Sons Lescher & Webb, Ltd.
Hearon, Squire & Francis
Jackson, E. E.
Mumford, G. S., & Sons

LIQUORS, CONC., ETC.
Allen, Stafford, & Sons, Ltd.
Fletcher, Fletcher & Co.
Hewlett, C. J., & Son
Robinson, B., & Co.

LITHIA SALTS
Davy Hill & Hodgkinsons
May & Baker, Ltd.
Merck, E.

LOOFAHS
Cresswell Bros. & Schmits

LOZENGES
Allen & Hanburys, Ltd.
Cox, A. H., & Co., Ltd.
Denoual, J., & Co.
Guest, T., & Co.
Jackson, E. E.
Potter & Clarke
Raimes & Co.
Shirley Bros., Ltd.
Warrick Bros.

MAGNESIA AND ITS SALTS
Henry, T. & W.
Howards & Sons, Ltd.
May & Baker, Ltd.
Washington Chemical Co.

MACHINERY, PHARMACAL
Allen & Hanburys, Ltd.
Bennett, E., & Son, Ltd.
Bennett, Sons & Shears, Ltd.
Brown & Son
Fecher, M. J.
Gardner, Wm., & Sons, Ltd.
"Hercules" Meat Juice Press
Pindar, J. W., & Co.
Roberts' Patent Filling Machine Co.
Smith, B. A., & Co.
Stokes, F. J., Machine Co.
Thompson & Capper (Stokes)
Wilkinson, S. W., & Co.

MALT EXTRACT AND PREPS
Allen & Hanburys, Ltd.
Baiss Bros. & Stevenson, Ltd.
Blackie, R.
British Dia Malt Co.
Burroughs Wellcome & Co.
Davy Hill & Hodgkinsons
Evans Sons Lescher & Webb
Hearon, Squire & Francis
Hewlett, C. J., & Son
Lorimer & Co., Ltd.
Oppenheimer, Son & Co., Ltd.
Paine & Co., Ltd.
Southall Bros. & Barclay, Ltd.
Squire & Sons
Wright, Layman & Umney

MARKING INK
Hickisson, A. (Bond's)
Hooper, W., & Co.

MEASURES
Taylor, F. H., & Sons

MEAT EXTRACT
Armour & Co., Ltd.
Brand & Co., Ltd.

MEDICINE CHESTS
Burroughs Wellcome & Co.
Keene & Ashwell, Ltd.
Leath & Ross
Lloyd, T. Howard., & Co.
Parke, Davis & Co.

MENTHOL CONES
Maw, S., Son & Sons
Shirley Bros., Ltd.

MERCURIALS
Atkinson, G., & Co.
Howards & Sons, Ltd.
May & Baker, Ltd.
Merck, E.
Tyrer, T., & Co., Ltd.
Whiffen, Thos.
Wink, J. A., & Co.

METHYLATED SPIRITS
Burrough, J., Ltd.
Preston's Liverpool Distillery
Randall & Son, Ltd.

MILK APPARATUS
Hawksley, T.
Zimmermann, C., & Co.

MILK SUGAR
Hollandsche M. S. Fabriek

MINERAL WATERS & SALTS
Apollinaris Co., Ltd.
Burrow, W. & J. (Malvern)
Davy Hill & Hodgkinsons, Ltd.
Findlater & Co.
Hughes, E. Griffiths
Ingram & Royle, Ltd.
Parke, Davis & Co.
Vichy (State Springs)
Vitaregis Hygienic Co.

NAPHTHAS
Burt, Boulton & Haywood

NEBULIZERS
(*See* Sprays)

OILS, ESSENTIAL
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Baiss Bros. & Stevenson
Bush, W. J., & Co., Ltd.
Chiris, Antoine
Cresp-Martineuq
Evans Sons Lescher & Webb
Jakson, J., & Co.
Lautier Fils
London Essence Co
Mühlethaler, Th., Ltd.
Ransom, W., & Son
Roure-Bertrand fils
Schimmel & Co.
Spencer, J., Son & Co.
Spurway et Cie.
Stevenson & Howell, Ltd.
Todd, A. M., Co.
Whiffen, Thos.
Whittaker, A.
Wink, J. A., & Co.
Wright, Layman & Umney

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Chemists' Co-operative Wholesale
Curling, G. Wyman, & Co.
Oldfield, Pattinson & Co.

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Carmichael, F. J., & Co.
Cresp-Martineuq
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British Optical Institute
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Chiris, Antoine
Compagnie Morana
Cresp-Martineuq
Haliflor Co.
Lautier Fils
Mühlethaler, Th., Ltd.
Murray, O., & Co., Ltd.
Schimmel & Co.
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Gnest, T., & Co.
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McCracken, J. & R.
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Newbery, F., & Sons, Ltd.
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Warrick Bros.
West, T.

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Rendell, W. J. (Quin.)

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Chesebrongh Mfg. Co.

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Bnrronghs Wellcome & Co.
Lockyer, J. E.
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Hewlett, C. J., & Son
Lloyd, T. Howard, & Co.
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Parke, Davis & Co.
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Southall Bros. & Barclay
Standard Tablet & Pill Co.
Wand Mfg. Co.
Warner, W. R., & Co.
Woolley, J., Sons & Co., Ltd.

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Dalmas, A. de St., & Co.
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Box, W. H.
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Cox, A. H., & Co., Ltd.
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D.D.D. Company
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Wilcox, Jozeau & Co.
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(*See also* Dentifrices and Toilet Articles)

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Hovenden, R., & Sons, Ltd
May, Roberts & Co
Newbery, F., & Sons, Ltd.
Sangers'

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Warrick Bros.

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Howards & Sons, Ltd.
Whiffen, Thos.

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May, Roberts & Co.
Schutze, F., & Co.
Warne, W., & Co., Ltd.

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Keane, Thomas

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Smith, B. A., & Co.

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Lescol Perfumery Co.
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Markt & Co. (London), Ltd.
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Maw, S., Son & Sons
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Schutze, F., & Co.
Wood, Vincent
Warne, W., & Co., Ltd.

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Burroughs Wellcome & Co.
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Bush, W. J., & Co., Ltd.
Chuit, Naef & Co.
Compagnie Morana
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Boehringer, C. F., & Soehne
Hoffman-La Roche, F., & Co.
Knoll & Co.

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Fellows' Med. Mfg. Co.
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Evans Sons Lescher & Webb
Hearon, Squire & Francis
Jackson, E. B.
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Martindale, W.
McKesson & Robbins
Parke, Davis & Co.
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Potter & Clarke
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Lloyd, A. S. (Hovenden)
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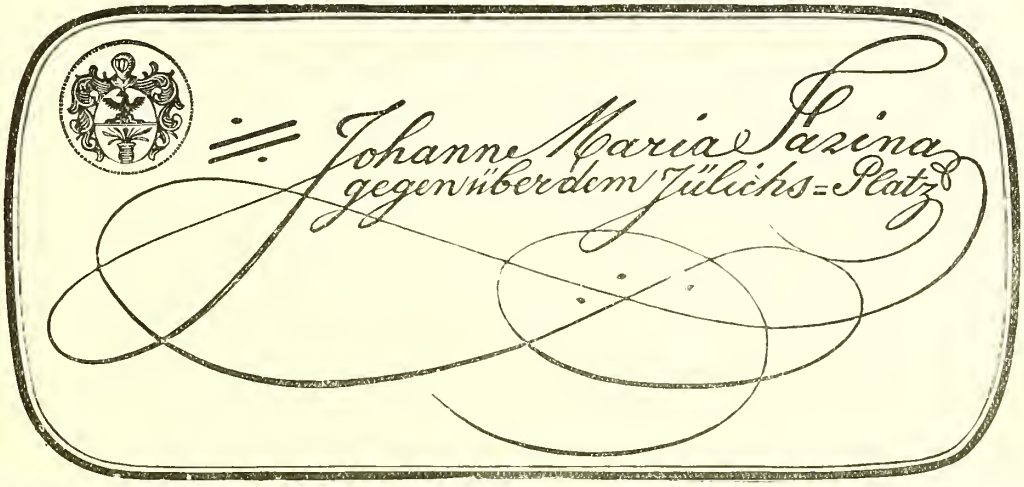

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LEIPZIG—28 Elsterstrasse. VIENNA—5 Wallfischgasse.
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London **L. T. PIVER'S** *Paris*

New Season's Goods:

ESSENCES CONCENTRÉES. **No. 4243.**
Lily of the Valley, Sweet Pea, White Rose, Wallflower, Wood Violet, Parma Violet, Heliotrope, Stephanotis, Ess. Bouquet, Carnation, Lilac, and Jockey Club. 21/- per doz. to retail at 2/6 per bott.

ESSENCES SURFINES. **No. 4215.**
Muguet, Heliotrope, Lilas, Peau d'Espagne, Rose, Violette, Chypre. 31/- per doz. to retail at 3/3 per bott.

ESSENCES ROSE SOLEIL (4244) et VIOLETTE RÉGIS (4245)
80/- per doz. to retail at 10/6 per bott. (in leather case, silk lined).

CRYSTALLIZED BRILLANTINE (in Tubes.) **No. 4128.**
Violette, Héliotrope, Lilas, Chypre, Foin, Œillet, Peau d'Espagne, Portugal, Vanille, Ylang. 5/- per doz. to retail at 8d. per tube.

POUDRE de RIZ SURFINE. **No. 4156.**
Violette, Rose, Chypre, Foin, Heliotrope, Lilas, Maréchale, Muse, Peau d'Espagne, White Rose, and Ylang. 8/- per doz. to retail at 10½d. per box.

From LONDON DEPOT: 9 & 10 Edward St., Wardour St., Oxford St., W.

The Lescol Perfumery Co.

FINEST
CONCENTRATED PERFUMES

PARMA VIOLETS, JOCKEY CLUB, OPOPONAX, NEW MOWN HAY,
RUSSIAN VIOLETS, SWEET PEA, WHITE ROSE, WALLFLOWER,
and all varieties of exceptional value.

Speciality: "NICOSIA."

No. AA 1 1 oz. ... 9/6 per doz. *1/3 each | No. AA 3 3 oz. ... 21/- per doz. *2/9 each
No. AA 2 2 oz. ... 15/6 per doz. *1/9 each | No. AA 4 4 oz. ... 26/- per doz. *3/6 each
No. AA 5 8 oz. ... 50/- per doz. *6/- each
* P.A.T.A. Prices

We have been extensively advertising "NICOSIA" in the principal periodicals and magazines to create an interest which should lead to Chemists receiving inquiries for this speciality.

Illustrated Price Lists on application to
GEORGE ST., CAMBERWELL GREEN, LONDON, S.E.

LAVONA DE COMPOSÉE

AND

FLOWERS OF OXZOIN

ARE REDUCED IN PRICE

TO-KALON PERFUME (French Fon Fleur)

is now put up in 2 dram as well as 1 oz. bottles.

Obtainable from all the Leading Wholesale Houses.

ALL OUR GOODS ARE ON THE P.A.T.A. LIST.

TO-KALON MANUFACTURING CO.

Albion House, 61 New Oxford Street, London, W.C.

The Opinion of Recognised Authority.

See in the Diary for 1909 what

Mr. J. PARRY, B.Sc., F.I.C., F.C.S., Analytical & Consulting Chemist,

says about the

Artificial & Synthetic Essences

of

CHUIT, NAEF & CO., GENEVA (Switzerland).

CONCLUDING STATEMENT.—In conclusion, my results enable me to say that all the products of Messrs. Chuit, Naef & Co. that I have examined are of the highest degree of purity, and in the case of mixtures of the sweetest and most powerful odour possible.

THE FINEST INVENTION OF THE AGE.

Recommended by Dental Authorities.

The "**MYSANTAL**" **Toothbrushes** beat all other makes, customers are delighted with them. Each Brush put up in antiseptic tube, an extra cleaning brush being supplied.

Write for particulars to :—

THE MEYER-SANDER DENTAL SUPPLY CO. 55 Berners Street, LONDON, W.

"B.&K." BRAND OTTO OF ROSE

GUARANTEED PURE. DISTILLED BY BONTCHEFF & KIDOFF OF KAZANLIK.

SOLE AGENTS IN THE UNITED KINGDOM:

Fredk. Boehm Ltd

16 Jewry Street, London, E.C.

Wholesale Quantities only.

ESTABLISHED 1820.

Roure-Bertrand Fils

GRASSE.

ROURE-BERTRAND FILS
MARQUE DE FABRIQUE
FOUE DE MATRES PREMRES POUR PARFUMERIE
GRASSE (ALPES-MARITIMES)

DISTILLERS OF ESSENTIAL OILS.

ROURE-BERTRAND FILS
RBF
FOUE de MATRES PREMRES pour PARFUMERIE
GRASSE (ALPES MARITIMES)

MANUFACTURERS OF
RAW MATERIALS FOR PERFUMERY AND SCENTED SOAPS AND HIGH-CLASS PERFUMERY EXTRACTS FROM FLOWERS.

Essences solides, liquides and absolues . . drawn directly from the flowers a speciality.

HIGHEST AWARDS AT MOST EXHIBITIONS.

Sole Agents for the United Kingdom :—

SPIES BROTHERS & CO., 102 Fenchurch Street, LONDON, E.C.

WHOLESALE HOUSES ONLY SUPPLIED.

Th. Mühlethaler & Co., Ltd. NYON, Switzerland

Latest Creations of the Nyon Factory—
NEROLI M.
ROSE, ALPINE.
JESSAMINE, WHITE
LILY OF THE VALLEY M.

Specialities of the Grasse Factory—
PATCHOULI
ORRIS ROOT OIL
VETIVER, JAVA
ABSOLUTES

SOLE AGENTS FOR GREAT BRITAIN :

R C TREATT & CO

Dunster House, Mincing Lane, Telephone No. 1692 Avenue. LONDON, E.C.

OIL OF LEMON
OIL OF BERGAMOT
OIL OF ORANGE SWEET

New Crop
BEST SICILIAN BRANDS.
WHOLESALE ONLY.

FREDK. BOEHM LTD., 16, JEWRY ST., LONDON, E.C.

The number of dentifrices is myriad, their names are legion,

But—

in principle and in efficiency there is but one,

CALOX

THE OXYGEN TOOTH POWDER.

Its principle is the evolution of oxygen.

Its efficiency as a cleanser of the teeth is due to the oxygen which it generates when used.

Not only antiseptic, but deodorant, two desirable properties of a tooth powder. Its oxidizing and deodorizing power was obvious in our experiments.—THE LANCET, *London, Eng.*

Possesses not only strong antiseptic, but deodorizing and oxidizing properties, as the result of which the teeth, after a few days' use of CALOX, acquire a pearly whiteness.—THE CHEMIST AND DRUGGIST, *London.*

CALOX is entirely different from other dentifrices. Its introduction marks a decided advance in the scientific development of a dentifrice, a fact which the dental profession the world over has been quick to recognise. Chemists should interest themselves in Calox because only a chemist can explain the peculiar virtues and value of an oxygen-producing dentifrice.

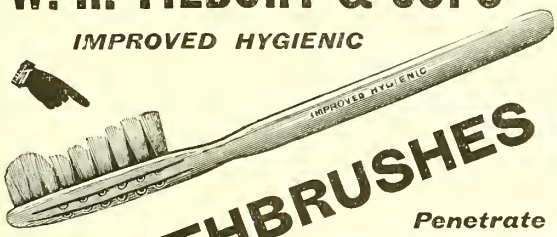
Price to the trade, 9/6 per dozen on the P.A.T.A. plan.

McKESSON & ROBBINS, New York, U.S.A., *Manufacturers.*

BRITISH DEPOT— A. C. WOOTTON, 14 Trinity Sq., Tower Hill, London, E.C.

W. R. TILBURY & CO.'S

IMPROVED HYGIENIC



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Penetrate Everywhere.

IN THREE SIZES.

HACKNEY, LONDON

BIDWELLS'

GOLD MEDAL

TOOTH BRUSHES.

ILLUSTRATED CATALOGUE FREE ON APPLICATION.

HEAD OFFICE AND FACTORIES:

AXMINSTER. DEVON. **ESTD. 1839.**

SUPPORT HOME INDUSTRIES.

Estd. 1777.

C.B.KENT & SONS LTD.
BEST BRITISH
BRUSHES.

Incd. 1900.

BUY KENT'S BRUSHES.

Summer Issue, 1907. pp. 58, 59.
Diary, 1909, pp. 46, 47.

SAL HEPATICA

EFFERVESCENT SALINE LAXATIVE.
URIC ACID SOLVENT.

A combination of the Tonic, Alterative and Laxative Salts similar to the celebrated Bitter Waters of Europe, fortified by the addition of Lithia and Sodium Phosphate. It stimulates the liver, tones intestinal glands, purifies alimentary tract, improves digestion, assimilation and metabolism. Especially valuable in

Rheumatism, Gout, Bilious Attacks and Constipation.

Most efficient in eliminating toxic products from intestinal tract or blood, and correcting vicious or impaired functions.

WRITE FOR FREE SAMPLE.

BRISTOL-MYERS CO.,
Brooklyn-New York, U.S.A.

On sale by Jobbers and
Thomas Christy & Co., London, Eng.

MAW'S MENTHOL CONES.

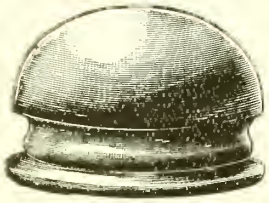


Fig. 2348.
BOXWOOD.
2/-, 2/9, 5/-, and **21/-** per doz.
EBONY.
4/6 per doz.

Fig. 2349.
NICKEL-PLATED.
2/- per doz.

Fig. 2351.
BOXWOOD, in boxes of 3 doz.
7/- and **10/6** per gross.

Fig. 2350.
ALUMINIUM.
3/6 per doz.
CELLULOID.
3/- and **6/3** per doz.

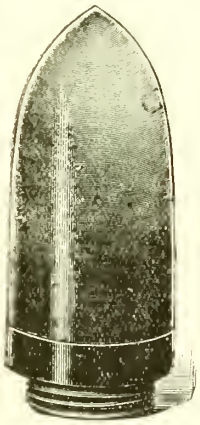


Fig. 2352.
BOXWOOD.
2/9 per doz.
SECOND QUALITY.
27/- per gross.

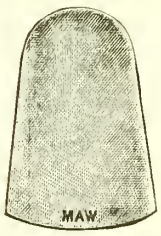


Fig. 2353.
PURE MENTHOL.
In Screw Metal-cap Bots.
1/7, 2/6, 3/3, and **4/6** per doz.

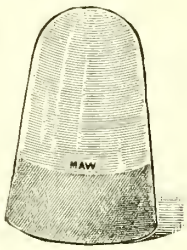


Fig. 2354.
MENTHOL ON VEGETABLE IVORY.
In Screw Metal-cap Bots.
3/3 per doz.

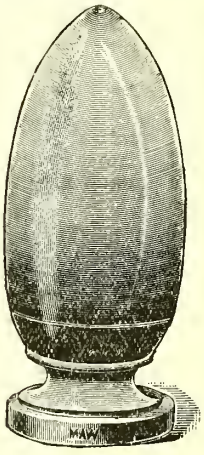


Fig. 2355.
BOXWOOD.
1/4, 1/6, 2/1, 2/9, and **4/8** per doz.
SECOND QUALITY.
13/6, 19/-, 23/-, and **42/-** per gross.

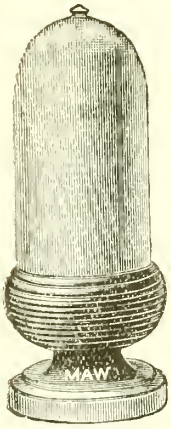


Fig. 2355B.
BOXWOOD.
2/2 per doz.

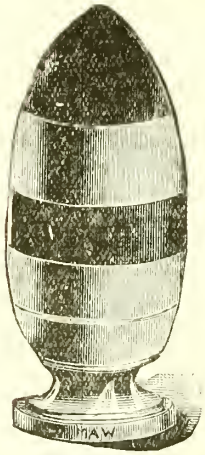


Fig. 2355C.
With Coloured Stripes.
3/9 and **4/9** per doz.

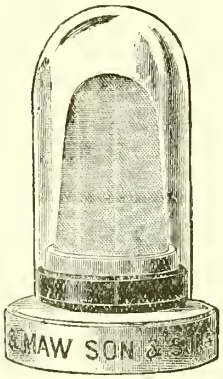


Fig. 2356.
EARTHENWARE BASE, GLASS SHADE.
4/3 and **6/6** per doz.
GLASS BASE, GLASS SHADE.
3/- and **4/3** per doz.

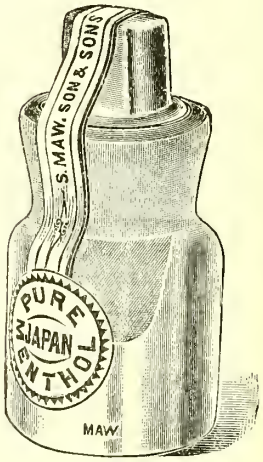


Fig. 2357.
STOPPERED BOTTLE.
4/- and **7/6** per doz.

S. MAW, SON & SONS, 7-12 ALDERSGATE ST., LONDON, E.C.

Telegrams: "ELEVEN LONDON." Telephone: LONDON WALL No. 3230 (4 lines).

BARCLAY & SONS, Ltd.

Wholesale Depot for the following Importations:

AGNEW'S CATARRH CURE, &c.
ALLENS' FOOT EASE & CORN PADS, &c.
ARTAUD'S PERFUMES.
BOEHM'S GLYCERINE SOAP.
BROMO PAPER.
CHAMBERLAIN'S REMEDIES.
CUTICURA REMEDIES & SOAP.
HIMROD'S ASTHMA CURE.
KALODONT.
KAUFMANN'S SULPHUR BITTERS.
LYON'S TOOTH POWDER.
PISO'S CONSUMPTION CURE.
RADWAY'S READY RELIEF.
RIEGER'S SOAPS.
VALENTINE'S MEAT JUICE.
WAMPOLE'S C. L. OIL., &c.

ALSO

Chemists' & Photo Dealers' Sundries, Patents, &c.

95 Farringdon St., LONDON, E.C.

A PROFITABLE ARTICLE IS

IN THE PATENTED 1/- per tube P.A.T.A.

"TESA TUBE" 8/- per dozen tubes.

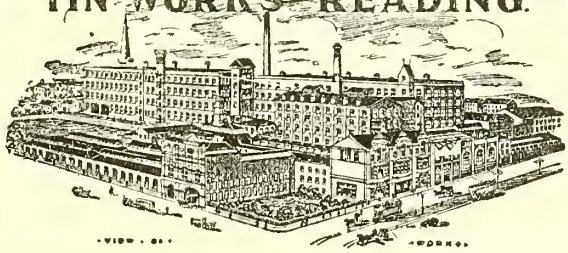
The "Tesa Tube" affords a great saving to the toothpaste is simple convenient and clean in use, an ornament to the washing stand

P. BEIERSDORF & Co. 7/8 IDOL LANE LONDON E.C.

HUNTLEY, BOORNE & STEVENS, LTD

TIN WORKS READING.

COLOR PRINTERS ON TIN.



MAKERS OF HIGH-CLASS. DECORATED & PLAIN TIN BOXES & SPECIALITIES FOR CHEMISTS.
Quotations to samples or descriptions.
CORRESPONDENCE INVITED.
Telegrams Tinworks "Reading" National Telephone 20.

A new Invention of Great Utility.

"LUTON" HAT DYES

No Gloss. No Polish. Dry at once. Resist rain.

Facsimile of Showcard.

Original 12½ in. × 10 in.

In bottles, 6d. each, in separate neat cartons, with suitable brush

These Dyes are a distinct invention, dying the straw without an objectionable varnished appearance, and producing the effect of new goods.

Write for terms and patterns:

WHITAKER & CO.

Colour Works, KENDAL, ENG.

SPECIALISTS IN VARNISHES, STAINS, DYES, &c. *ESTD. 1878.*

Colonial Testimonial—"Your 'Lutons' have really come up to the mark." Geo. H. Langton, Port of Spain, Trinidad.

VISCOSE BOTTLE CAPS

For CAPPING EVERYTHING
whether corked, stoppered or sprinkled.
BETTER APPEARANCE, MORE EFFICIENT AND EASIER TO APPLY THAN ANY OTHER CAPPING.
Strong, perfect fitting, SELF-FIXING, air-tight and spirit-tight, &c. &c.

VISCOSE DEVELOPMENT CO., Ltd., 3 New Court, Carey Street, London, W.C.

A Business Builder

7/- per gross
Carriage Paid.

"FLOROSA" SHAMPOO is one of those lines it will pay you to introduce to your customers. Gives satisfaction, and leads to increased business.
Each 3 doz. on an attractive mount.

Order a trial gross.

Hall, Forster & Co. Ltd., Elswick Court, Newcastle-on-Tyne.

THINK OVER THIS

SPECIAL MONTHLY OFFER OF **NEWBALL & MASON**

BALSAM OF ANISEED

THERE'S NO TROUBLE. FINE PROFIT. — SELLS QUICKLY. SUIT YOUR TRADE.

YOU CAN MAKE IT A BUSINESS BRINGING LINE.

Special Terms.

1 GROSS, **18/6.**
ON SALE OR RETURN
FOR SIX MONTHS.
ALL CARRIAGE PAID.

FREE BOTTLE.

NEWBALL & MASON,
NOTTINGHAM.

Label on Wrapper.

CONTAINS NO NARCOTIC.
POPULAR
BALSAM ANISEED 3D.
COMPOUND. per bot.
WARMING AND COMFORTING.

IT IS IMPERATIVE THAT CHEMISTS AND OTHERS REQUIRING

ESSENTIAL OILS

for Medicinal Purposes should employ Genuine and Finest Qualities only.

These can be obtained from W. J. BUSH & CO., LTD., who guarantee the following to be **absolutely pure** and to pass the tests of the British Pharmacopœia, 1898.

OL. AMYGDALAE ANG.
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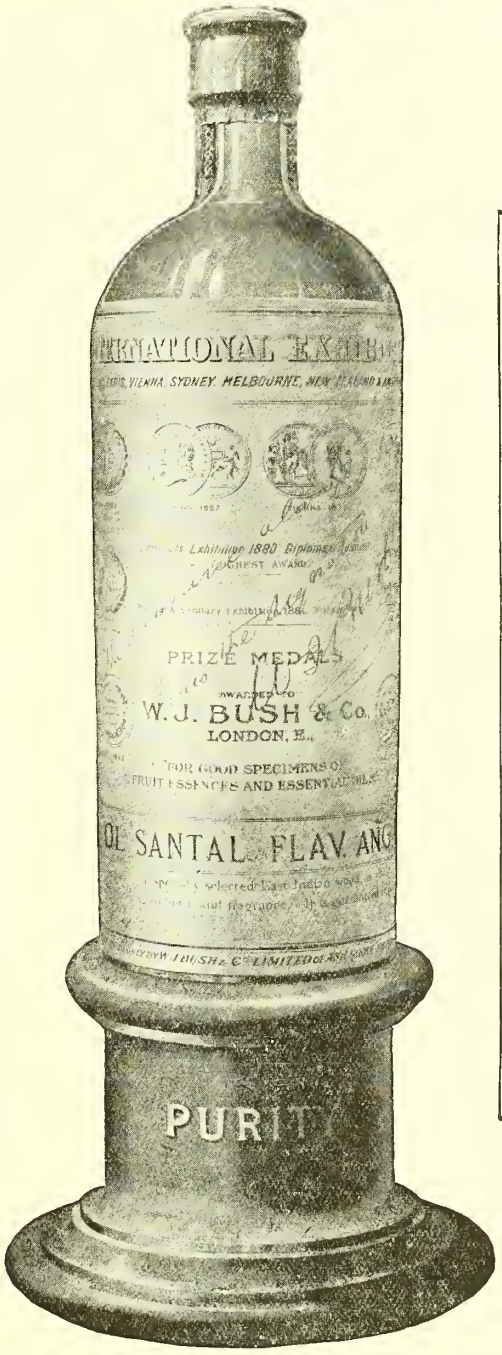

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SOLUBLE ESSENCES

BUSH-OTTOS

Possessing the aroma of the natural flowers to a remarkable degree.

SYNTHETIC PERFUMES

HARMLESS COLOURS

CARAMELS

FRENCH ESSENTIAL OILS

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OIL OF ORRIS CONCRETE

FRENCH CREAM HEADINGS

CONCENTRATED FRUIT JUICES

PRESERVATIVES

HEAD OFFICES:

W. J. BUSH & CO., LTD., Ash Grove, Hackney, LONDON, N.E.

THE NATURAL MINERAL WATERS OF

VICHY

(STATE SPRINGS)

CÉLESTINS For Diseases of the Kidneys, Gravel, Gout, Rheumatism, Diabetes, &c.

GRANDE-GRILLE For Diseases of the Liver and Biliary Organs, &c.

HOPITAL For Stomach Complaints, Indigestion, &c.

VICHY-ÉTAT PASTILLES Two or three Pastilles after each meal facilitate digestion.

VICHY-ÉTAT COMPRIMÉS For instantaneously producing an effervescing alkaline water.

Price Lists, Show Cards, Dummy Bottles, Pamphlets, &c.

CAUTION.—Each Bottle from the STATE SPRINGS bears a neck lable with the word "VICHY-ÉTAT" and the name of the SOLE AGENTS:—

INGRAM & ROYLE, LTD., 26 UPPER THAMES STREET, E.C. And at LIVERPOOL and BRISTOL.

A. MILLAR & CO., Ltd., DUBLIN

PURE ORANGE WINE

(VINUM AURANTII, B.P.), prepared in strict accordance with the Formula of the British Pharmacopœia. (Wholesale only.)

London Agent: T. W. CASHMAN, 16 Mark Lane, E.C.

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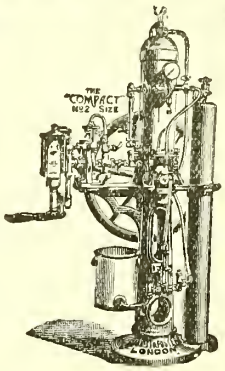
THE "COMPACT" MACHINES
are specially designed for
CHEMISTS, GROCERS, RESTAURATEURS,
and everyone to whom space is an object, and can be used for filling Syphons, Codd's Bottles, or Cork Bottles.

OCCUPY LITTLE SPACE!
ARE READY FOR USE IMMEDIATELY!
REQUIRE NO FIXING!

Produce Soda Water, Lemonade, &c., of the highest class and greatest purity.

Write for Catalogue.



A COMPLETE APPARATUS—CAPABLE OF PRODUCING OVER 300 DOZEN LARGE BOTTLES OF AERATED WATER PER DAY—from £20.

Bottles, Boxes, Essences, and all Requisites for the Trade at Lowest Prices.

BARNETT & FOSTER, Niagara Works, 26T Eagle Wharf Road, N.

Proprietors of Galloway, Bros., Bolton.

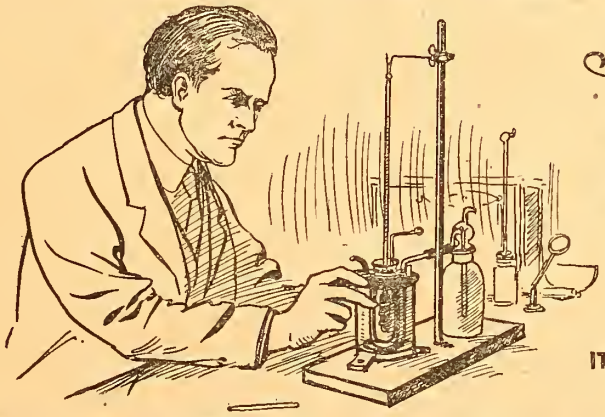
THE CHEMIST & DRUGGIST SUPPLEMENT.

OFFICE: 42 CANNON STREET, E.C. SATURDAY, FEBRUARY 13, 1909.

PUBLISHER'S NOTICE TO ADVERTISERS.

Advertisers are desired to take note that the advertisements of Businesses for Disposal and Wanted, Situations Open and Required, Exchange Column, &c., belong to the **PREPAID CLASS, and to ensure the due insertion of the announcements the remittances must accompany the instructions.** A great amount of unnecessary correspondence is occasioned by the non-observance of this regulation, and the Publisher hopes that the advertisers will assist in the quick preparation and despatch of the Supplement by strictly observing this rule. Advertisements for the current Issue cannot be received after 4 p.m. on Thursday [illegible] week.

A Copy of this Supplement is inserted in every Number issued of "The Chemist and Druggist."



The most delicate test of the value of publicity is the kind of result obtained

IT PAYS TO PAY FOR PUBLICITY IN THE C. & D. SUPPLEMENT.

CHEMISTS' TRANSFERS.

Messrs. ORRIDGE & CO., 56 Ludgate Hill, E.C.

May be consulted at their Offices on matters of SALE, PURCHASE, and VALUATION.

1.—CITY.—Situate in close proximity to busy railway station; old-established Business; returns between £2,500 and £3,000 per annum; *net profit* £800; further details on application; references will facilitate business.

2.—WESTMINSTER (Main Thoroughfare).—Good-class Business; Retail, Dispensing, and Photographic; returns about £1,700; handsomely fitted shop, fully stocked; to an immediate purchaser less than the value of stock and fixtures will be accepted.

3.—LONDON, S.E. (Residential Locality).—Established Business; Retail and Dispensing; returns £1,100 (about); profits above the average; well-fitted shop, fully stocked; comfortable residence; held on lease; price £875.

4.—LONDON, S.W. (Main Thoroughfare).—General Retail, Photographic, and Optical; all good middle-class trading; returns £1,050; scope for extended trade; *net profit* 25 per cent.; attractive shop; roomy house; rent £60; long lease; price £650.

5.—SOUTH COAST.—Neglected Business; Retail and Dispensing; returns between £600 and £700 yearly; attractive shop, and well-assorted stock; immediate sale desired; no reasonable offer refused.

6.—OXFORD CIRCUS (near).—Dispensing and Retail Business; very old established; returns £1,200 per annum; *net profit* 25 per cent. (proof given); well-appointed shop; corner position; large house; price £900 or valuation terms entertained.

7.—LONDON.—Situate in close proximity to the Docks; ready-money Business; main thoroughfare; returns under management £13 weekly; formerly about £1,100 yearly; scope for large development; to a prompt purchaser easy terms can be arranged; worth attention.

8.—SUSSEX.—High-class Business; Retail and Dispensing; returns average £1,200 yearly; present rate less; profits above the average; illness cause of sale; reasonable offer entertained.

9.—NORTH OF ENGLAND.—Dispensing and Retail Business; established many years; returns, including small branch, about £900 yearly; profits above the average; good reasons for disposal; about the value of stock and fixtures will be accepted.

10.—DORSET COAST.—Retail, Dispensing, Prescribing, and Photographic trade; returns about £620; *profit (net)* £200; modern-fitted shop; good residence; price £320 or valuation of stock and fixtures.

11.—WILTS.—Established Business; Light Country Retail, with good Family connection; returns £500; *net profit* £190 (about); roomy house; large garden; long lease; no opposition; price £350.

12.—CHESHIRE.—Old-established Business; Retail, Dispensing, and Prescribing; returns average £800 per annum; *net profit* 25 per cent.; well-fitted shop; corner position; main thoroughfare; modern house; rent £65; price £400; ill-health cause of sale.

13.—EASTERN COUNTY.—Ready-money Business; Retail, Prescribing, and Photographic; returns about £1,400 yearly; *gross profit* £470; attractive, well-fitted shop; situate in busy main thoroughfare; rent £48; valuation of stock and fixtures only required.

14.—MIDLANDS (Inland Health Resort).—High-class Retail, Dispensing, Optical, and Photographic Business; returns about £600; *net profit* £150; modern-fitted shop; main thoroughfare; capital residence; price £350.

Particulars of any of the above will be furnished on application.

N.B.—NO CHARGE TO PURCHASERS.

VALUATIONS FOR STOCKTAKING.

Messrs. O. & Co., desire to emphasise the necessity of a Periodical Statement of Account, by which means alone **Profit, the value of Business, &c.,** can be determined. Involving as this does the labour of Stocktaking and Valuation, it is often omitted, and eventually becomes the cause of **confusion and loss.**

Messrs. O. & Co. are prepared to undertake these essential duties, and will make **Special Terms** for such services.

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STOCKTAKING SPECIALISTS to the Entire DRUG TRADE.

LONDON, N.E.—Good middle-class Retail, with splendid Photographic connection; good house and premises; returns £873 last year under manager; very profitable; rent £40; vendor will accept any reasonable offer to effect a speedy sale.

MIDDLESEX.—Very nice Light Retail, Dispensing, Prescribing, and Photographic Business, in pretty country district; good house and large double-fronted shop; returns £700; net profit £200; price £600; rare chance to acquire a genuine concern.

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LIVERPOOL.—Good middle-class Retail, now under unqualified management; grand opening for Photographic and Optics; returns £630; net profit £200; price £400; splendid opportunity.

WARWICKSHIRE.—Dispensing and Light Retail, with Photographic; nice, well-fitted shop and convenient house, in good position of busy town; returns £600; price £350; serious illness of vendor sole reason for selling; with attention returns could soon be doubled.

YORKS.—Splendid high-class Dispensing Business, with nice Photo and Optical connection; one of the best businesses in the district; old-fashioned, fine premises, which can be had on lease at moderate rent; returns over £2,000; price, valuation only, £800 to £1,000; grand opportunity.

MIDLANDS.—Good-class Light Retail, with Photo trade and nice Optical connection; splendid position in main street of busy town; returns £1,400; valuation of stock and fixtures.

GLOUCESTERSHIRE.—Unopposed Light Retail, Photographic, and Dispensing; good shop and house; large garden; very old established; returns £530; net profit £200; price £425.

YORKS.—High-class cash trade; Photographic and Wines, with excellent Specialities; tram terminus; best street in town; very old established; returns £1,230; net profit £350; price, goodwill £150 and valuation, about £850; splendid concern.

Write us at once for our special terms for STOCKTAKING for 1909. We are now booking dates. Correspondence cordially invited.

PARSON C. BAKER

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Recommended by—MESSRS. BARRON, HARVEYS & CO.
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ESTABLISHED 3 years; returning £700; no near opposition; estate now very rapidly filling up; extreme suburb of London, joining beautiful district; rent £30; price £300, which is estimated value of shop and fixtures; absolute net profit £280.

FIRST-CLASS Store in best neighbourhood West London, with Dispensing; 3,000 new prescriptions per annum; returns over £1,600; large handsome shop and good house; rent £100 (let off £50); net profit over £400 per annum; full investigation allowed; price £850.

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LONDON, N.E.—Genuine bargain.—Fine attractive Shop; returns last 4 years over £800; 12 years' lease unexpired; no reasonable offer refused; owner going into the Wholesale.

BRIGHTON.—Old-established; returns under manager £550; Light Retail and Dispensing; well stocked and fitted; house, 5 rooms and usual offices; no reasonable offer refused.

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2.—MIDLANDS (Charming Health Resort).—High-class Dispensing Business; increasing; net profit nearly £300; elegantly fitted Pharmacy, and well stocked; good house; price £900, simply valuation.

3.—HAMPSHIRE.—Light Family Retail Business, in small town, charming locality; returns over £900; excellent profits; low rent; attractive shop, well fitted and stocked; price £775; personally inspected and strongly recommended.

4.—KENT (Market Town).—Good-class Light Country Retail Business; easily worked; returns £800; net profit £300; best position; no opposition; large house and garden; price £650 or offer.

5.—WEST OF ENGLAND.—Good-class Family and Country Retail; in market town; unopposed; returns over £600; net profit £200; large house and garden; price £450; strongly recommended.

6.—HERTFORDSHIRE.—Good-class Light Retail, Dispensing, and Prescribing; returns £700; low rent; no near opposition; modern-fitted shop, well stocked; price £430.

7.—NORFOLK (Coast).—Light Retail, Prescribing, and Photographic Business, increasing; returns £760; net profit £200; low rent; good position; illness sole reason for selling; price about £350.

8.—WEST-END.—High-class Dispensing and Light Retail Business; returns £20 a week, at best prices; plenty of scope; handsomely fitted shop, well stocked; price £700.

9.—LONDON, N.—Light Cash Retail, Prescribing, and Dispensing; in busy main road; returns £1,500; net profit £385; splendid position; very attractive shop; price £850.

10.—MARKET TOWN (Easy Distance from London).—Good-class, well-established Retail, in excellent position; returns about £900; plenty of scope; convenient house and shop; price simply valuation and small goodwill.

11.—MANCHESTER.—For immediate Disposal, under exceptional circumstances, very profitable City Business; easily worked; returns last year £2,500; scarcely any patents; unique position; handsome shop, well stocked; price £850 or valuation; only wants seeing.

12.—SOUTH COAST.—Light Retail, Prescribing, and Dispensing Business; returns £950; net profit over £250; doublefronted shop, well fitted and stocked; price £630; part can remain.

13.—KENT (Favourite Locality).—Light Cash Retail, Prescribing, and Dispensing; returns £675, good profits; main road position; well-fitted shop, well stocked; price £450.

14.—MIDDLESEX (15 miles out).—Light Retail, Dispensing, and Prescribing Business; returns over £650; net profit £213; modern-fitted shop and good stock; price £300, or valuation.

15.—MIDLANDS.—£225 or valuation; very profitable Light Retail; returns £11 weekly, increasing; rent £20; corner shop; well situated, and no near opposition; strongly recommended.

16.—LANCS (Small Town).—Light Retail, Prescribing, and Photographic; in central position; returns over £600; net profit £185; good house and shop; price £300 or valuation.

17.—LONDON, N.E.—Sound Light Family Retail Business; returns £873 under manager; good profits and plenty of scope; modern house; low rent; splendid position; price £450.

18.—LONDON SUBURB.—Light Family Retail and Prescribing; very few patents; returns over £600; net profit £240 clear; no near opposition; good house, etc.; price £325; books properly kept.

STOCKTAKING.

Every modern Chemist knows that Stocktaking is a necessity, but is he aware of its immense value and importance in connection with FIRE INSURANCE and preparing a BALANCE-SHEET? If not, he should at once turn up page 115 in the "C. & D. Diary, 1909," and carefully read our advertisement on this subject, and then write for our special terms for doing this work.

J. G. BERDOE established the firm in 1870, and W. S. FISH was apprenticed to him in 1877.

TOMTOM

Telegraphic Address.

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We desire particularly to draw the attention of Colonial and Foreign Subscribers to the fact that in cases where they require partners, agents, or assistants, or wish to sell their businesses, an advertisement in this Supplement, placed in every copy of "The Chemist and Druggist," should be the readiest means of helping them to attain their object. The tariff for such announcements is given under the appropriate headings in the Supplement. Instructions and remittances can be sent to us direct or through the advertisers' correspondents in this country.

BUSINESSES FOR DISPOSAL.

3s. 6d. for 50 words or less; 6d. for every 10 words beyond, prepaid.

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COLONIAL BUSINESSES.

We call the special attention of our Colonial subscribers to the opportunity this Supplement affords when they wish to dispose of their Businesses, of getting into touch with likely buyers either at home or in the Colonies.

BIRMINGHAM.—Light Retail in the best suburban shopping thoroughfare; very good prospects for qualified or unqualified; open 3 months; returns over £6, and steadily increasing; patents almost nil; good house, with modern conveniences, at low rental; good reason for disposal; price very low to immediate purchaser. "Senex" (178/14), Office of this Paper.

CO. DURHAM.—Chemist's Business, with Dental, Photographic, and Agricultural; Wine Licence; good shop and fittings; under management increasing, at good profits; only chemist; low rent; lease; price about £400. Thomas G. I. Hedley, Estate Agent and Valuer, 72 Buston Terrace, Newcastle-on-Tyne.

CORNWALL (in large Market Town).—Good-class Dispensing and Agricultural Business; large and convenient premises; excellent position; long lease; several good Proprietaries; returns increasing annually; exceptional profits. Apply, "Cornwall" (178/29), Office of this Paper.

EAST KENT.—Genuine ready-money Light Retail and Prescribing Business; good thoroughfare; scope for increase; no side-lines; expenses small; rent £25; price £200. Apply, "H. S. F. B.," 69 Bryant Road, Strood, Kent.

FLINT (North Wales).—Owing to the death of the proprietor, exceptional opportunity of securing an old-established Mixed Retail, Photographic, and Dispensing Business; returns nearly £800; may be considerably increased, as large new works are about to be erected in the district; rent £26; other expenses very moderate; offers wanted for goodwill, fixtures, etc.; stock at valuation. Apply, J. Williams, Accountant, Flint.

FOLKESTONE.—Genuine Business; Photography, Prescribing, Dispensing, Light Retail; nice house and shop; lease; a good opportunity for young man. Full particulars of Barton, 57 Sandgate Road, Folkestone.

FULHAM, S.W.—Branch Cash Retail; thickly-populated neighbourhood; good fittings; well stocked; good prices; takings under Junior £661; net profit over £150, easily increased by better management; nice modern house, 7 rooms, large bath-room and scullery; shop 17 by 24, single fronted; garden 17 by 25; lease 13 years unexpired; rent £65, increasing to £70; price £300. Apply, "R.," 388 Fulham Palace Road, S.W.

HOME COUNTY.—First-class Light Retail and Dispensing Business, in a very desirable locality within 20 miles of London (main line), making a clear net income of nearly £450 after paying every outgoing; increasing yearly; books properly kept, and balance-sheet to prove everything; price £1,200; stock and fixtures worth £1,000; cash buyers only treated with. "Veronal" (181/108), Office of this Paper.

LANCASHIRE.—Genuine old-established Business in busy manufacturing town; all cash trade; returns just over £600; low rental; an excellent opportunity for buyer with small capital to acquire sound concern. Full particulars to bona fide applicants, "A. B." (177/34), Office of this Paper.

LANCASHIRE.—The old-established Business carried on by the late Joseph Wild at Clayton-le-Moors, Accrington; an excellent opportunity; good Retail business; splendid returns from proprietary preparations of world-wide reputation. Apply, D. L. Sprake, Solicitor, Accrington.

LEEDS (Suburbs).—Compact Business; good middle-class locality; lock-up shop; rent £20; returns £550; net profit £130; capable of good increase; price £200, or valuation. Apply for note to view, F. W. Smith, 3 Belgrave Terrace, Leeds.

LONDON, S.W. (main Surrey Road).—Good modern shop and house; electricity throughout; returns £18 weekly, and shows recent increase, with much scope for more; gross profits about 50 per cent.; rent £60, with optional lease; price about £600. Address, "H. P. A.," 351 Brockley Road, Crofton Park, London, S.E.

LONDON, S.W.—Genuine Light Retail; returns £450 under management; lock-up shop, low rent; price £150; Manager with view to purchase, or part-payment entertained. Address, 174/11, Office of this Paper.

LONDON.—Two Businesses; one N., in pleasant locality; neatly fitted mahogany; rent, £35 and rates; price £150 (much below valuation), or nearest offer; other in a market street, S.E.; rent, including rates, 14*s.* weekly; price £35; profitable trade; owner retiring. "Chemist," 3 Monte Cristo Parade, Newington Green, N.

LONDON.—Small Drug-store for Sale; nicely fitted and stocked; takings £8 to £10 per week; mostly penny trade, and very profitable; a good Prescriber would do well; house, with side door, and small garden; price £180, or mutual valuation. Apply, "Cardamom" (178/19), Office of this Paper.

LONDON, N.W.—For immediate Disposal, a genuine, compact Cash Business, returning from £10 to £12 weekly, and still increasing; neighbourhood very thickly populated, with no near opposition; business mostly Prescribing and General Retail; very few patents sold; the shop is nicely fitted, and to a smart man an opportunity rarely met with, as he could double returns in three months; introduction given or fair trial; rental £45 yearly; cash required about £200. 180/38, Office of this Paper.

LONDON, E.—Small cash trade, taking £6 10*s.* weekly; profit about £3 10*s.*; rent £30; very much neglected; price £145. 181/33, Office of this Paper.

MANCHESTER Suburb.—Branch Business for Sale; returns about £400; no opposition near. Apply, 208/32, Office of this Paper.

NORFOLK COAST.—Unopposed Business, which has been increasing for the last 2½ years; good prices obtained; net profits 26 per cent.; last year's returns £760; Dental business would greatly increase turnover; full investigation courted; good reason for disposal. 173/6, Office of this Paper.

NORTH LONDON.—A Rare Bargain.—Family, Dispensing, and General Retail; average returns for past 6 years nearly £1,100; profits about one-third; selling through health trouble, owner being desirous of leaving London; price, simply fair value of stock and fixtures; would value down to £350. Apply to E. Withers & Sons, Estate Agents, 167 Stoke Newington Road, N.

NORTH OF ENGLAND.—Chemist's Business, including large Dental practice, Photographic, Agricultural and Seeds, Wine Licence; modern shop, well fitted; returns good, and increasing, at good profits; comfortable and roomy house, bath, stable, warehouse, and garden; no other chemist; rent £36, on lease; price about £800; satisfactory reasons disposal. Thomas G. I. Hedley, Estate Agent and Valuer, 72 Buston Terrace, Newcastle-on-Tyne.

NORTH STAFFS.—As a going concern, a sound Drug Business; suit unqualified; well stocked; no opposition; takings £7 weekly; for sale through death; price required, £110, or would accept £80 cash and the rest by instalments; village country business; very clean trade done. Apply, "Radix" (177/20), Office of this Paper.

NORTH WALES.—A very sound-established Mixed, Prescribing, and Agricultural Business for Sale; returning over £1,200, at very profitable prices; a splendid opening; well worth attention; price £400. Apply, "Cymro" (175/14), Office of this Paper.

NOTTINGHAM.—Old-established Business; densely-populated working-class district; good returns; no patents; rent low; has been run as branch for 10 years; well stocked; price £150 to immediate purchaser. Norweb, Chemist, Nottingham.

BUSINESSES FOR DISPOSAL

(continued.)

S.W.—Ten miles from City; Drug Store; corner, double-fronted Shop, well fitted and stocked; main road; increasing neighbourhood; must be sold at once; good reason for leaving; average £600 per annum; very few patents; healthy house and district; rent £45, on lease; 7 rooms, yard, etc.; £350 cash or reasonable offer; stock and fittings worth the money; good opening for Dentistry. 181/2, Office of this Paper.

SOUTHEND.—Splendid chance for obtaining small, progressive Prescribing Business; nearest chemist about 20 minutes' walk; a qualified man could make this a very profitable business in a short time; stock good and fresh; would accept £150, or offer; health cause of selling. "Health" (179/26), Office of this Paper.

WEST-END.—Old-established Light Retail and Dispensing Business, with own Proprietaries; returns £1,569; showing clear net profit of £400; very handsome pharmacy; fully stocked; large house; held on long lease at very low rental; price £800. Apply, "Major" (181/81), Office of this Paper.

CHEMIST'S and Druggist's Business in the immediate neighbourhood of Glasgow for Sale; excellent opening, with good turnover and moderate ingoing. Apply, Wilson, Stirling & Co., C.A., 186 St. Vincent Street, Glasgow.

FOR immediate Disposal, owing to death, old-established Business, in main Road, S.E. district; can be purchased upon easiest of terms at bare cost of stock and fixtures. Apply, 181/12, Office of this Paper.

MARKET Town; good Family trade, with room for increase in Agricultural; returns £670; net profit 25 per cent.; price £430 or near offer; will take away part stock and fixtures to substantially reduce price; genuine concern; population 10,000. Write for particulars to Harrisson, Evans Lescher & Webb, Bartholomew Close, London.

OLD-ESTABLISHED Business; changed hands once in 40 years; situated in best position of a fashionable seaside (South); double fronted; Family Retail, Dispensing, and Photography; large house and premises; good profits; returns £1,400 to £1,500; applicants with command of ready cash only treated with. Address, "Lactoserve" (175/7), Office of this Paper.

SMALL good-class Cash Business in West End; on favourable terms; good opportunity for young man with small capital. "Pharmacy" (181/6), Office of this Paper.

£25 cash, small balance instalments; cheapest Business worth having ever advertised; aged vendor's failing health compels sale; busy centre; practically unopposed; best position shopping main road, N.W.; surrounding dense population, including considerable number superior class families; rent, shop and parlour, 15s.; smart, energetic purchaser adopting modern business methods must do well. 177/19, Office of this Paper.

£100 (valuation); Yorkshire (West Riding); unopposed suburban Cash Retail; taking £7 weekly; a new business scope for good increase and suitable for qualified or unqualified man. For full particulars write, "Rex" (176/10), Office of this Paper.

£100, or near.—Cash Drug-stores in seaport town; Prescribing and Photography; takings £3 to £4 weekly; ill-health cause of sale; nice shop, with house attached, in growing neighbourhood; returns easily doubled under smart man; opened 2½ years; genuine business. Apply, "Aspirin" (178/7), Office of this Paper.

£150, or best offer.—Near Nottingham Lace Market.—Old-established Prescribing Business, carried on successfully by late owner for 40 years; takings averaged over £20 weekly; no patents; in hands of widow 8 months, now practically closed; must sell quick. For full particulars apply, 56 Radford Boulevard, Nottingham.

£250; good Business in Manchester district; Light Retail, Prescribing, and Photographic; excellent corner premises; no opposition; ample scope for increase; returns over £375 at good prices; few patents; this is a splendid chance for a smart man; good opening for Side-lines. Apply, "X. Y. Z." (177/13), Office of this Paper.

£250, or valuation, for well-appointed Pharmacy situated in large Midland manufacturing town; large works in neighbourhood, in full employment; large house; separate entrance; corner shop, well fitted, and good stock; turnover £525, rapidly increasing; net profits nearly £4; investigations solicited; full particulars and photo given genuine buyer; trial if required. 178/83, Office of this Paper.

TENDERS.

GREENWICH UNION.

DRUGS AND SURGICAL APPLIANCES.

THE Guardians will meet at the Board Room, Union Workhouse, Greenwich, on WEDNESDAY, March 10, at 2 o'clock P.M., to open Tenders, viz., for 12 months commencing March 28, 1909, for DRUGS and SURGICAL APPLIANCES.

No Tenders can be received other than those for which forms are provided, which can be obtained on application at the Clerk's Office, Union Workhouse, between 10 and 4 o'clock.

The Tenders must be sealed up and endorsed with the name of the trade on the cover, in the envelope supplied by the Guardians, and delivered at the Clerk's Office, Union Workhouse, before noon on MARCH 10, 1909, after which no Tender can be received. The Guardians do not bind themselves to accept the lowest or any Tender.

The parties tendering need not attend the meeting.

By order,
SAMUEL SAW,
Greenwich, February 1909. Clerk to the Guardians.

KENSINGTON BOARD OF GUARDIANS.

CONTRACTS FOR DRUGS AND DRUGGISTS' SUNDRIES.

THE Guardians of the Poor of the Parish of Kensington are prepared to receive Tenders for the Supply of Drugs and Druggists' Sundries to their Workhouses and Infirmary for 12 months from 28th March, 1909.

Forms of Tender, with all necessary information, may be obtained upon personal application or by sending a stamped addressed foolscap envelope to the undersigned. Tenders must be delivered not later than 3 P.M. on THURSDAY, 4th March, 1909, for consideration at a Meeting to be held at that time.

By order,
W. R. STEPHENS,
Clerk to the Guardians.
Guardians' Offices, Marloes Road, Kensington, W.
February 10th, 1909.

CARDIFF UNION.

THE Guardians invite TENDERS for 12 months' Supply of DRUGS, &c., for the Cardiff Workhouse Dispensary and Outdoor Dispensary, 62 Charles Street, Cardiff.

The arrangements for payment of accounts may be obtained from me.

Forms of Tender must be obtained from me and returned under cover, endorsed "Tender for the Supply of Drugs," so as to reach me not later than FRIDAY, February 19, 1909.

No Tender necessarily accepted.

ARTHUR J. HARRIS, Clerk.
Union Offices, Queen's Chambers, Cardiff.
February 9, 1909.

BUSINESSES WANTED.

ADVERTISER wishes to buy an old-established Business returning between £800 and £1,500; or is willing to consider Partnership in a larger concern. Full particulars (in confidence), "B. G." (177/29), Office of this Paper.

BUSINESS wanted within 25 miles radius of London; fair Dispensing; good-class neighbourhood, and house not necessarily large. Address, "S." (208/28), Office of this Paper.

MESSRS. BERDOE & FISH, having been successful in recently disposing of a large number of Businesses, are in immediate want of sound concerns in London and all parts of the country for cash buyers from £300 to £3,000; strictest confidence guaranteed; correspondence cordially invited from intending vendors. Address, 35 Jewry Street, Fenchurch Street, London, E.C.

N., N.W., or W. LONDON.—Wanted, small Chemist's Business; neglected one not objected to if capable of good increase. Send full particulars (which will be treated with strict confidence) of business and house to Davies, 16 Tytherton Road, Tufnell Park, N.

WANTED to purchase a Business; Northern Counties preferred; price £300 to £500; cash down and quick settlement if suited. Full particulars (which will be treated with strict confidence) to "Pharmacist" (179/17), Office of this Paper.

£5 will be paid for information (if acted upon) for a good opening for a Dentist. Replies to "Dentist," Rosedene, Alma Road, East Cliff, Herne Bay.

£5 will be paid to anyone giving information (if acted upon) of a suitable opening for a Veterinary Surgeon (M.R.C.V.S.); good-class neighbourhood essential. Address, 173/12, Office of this Paper.

FOR SALE.

FOR Sale, a really good Proprietary, suitable for all classes, with established trade-mark and connection; the proprietor would either sell outright or on a royalty basis; particulars to principals and bona fide persons only. Address, 179/21, Office of this Paper.

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TO CHEMISTS, DOCTORS, AND VETERINARY SURGEONS.

CLACTON-ON-SEA.

ERNEST JOHNSON has received instructions from the Trustee to SELL by AUCTION at the Criterion Restaurant, Pier Avenue (goods removed for convenience of sale), on TUESDAY, February 16th, 1909, at 12 o'clock, the Stock-in-Trade, Fixtures, etc., of a Chemist and Druggist, including mahogany Drug Fitting with 51 Drawers, and 3 Tiers Shelving, ditto Wall Case, Dispensing Screen, Perfume Case, Counter and Show Cases, Carboys, Pill Machine, Porcelain Show Jars, Shop Rounds, Scales and Weights, "O'Brien" Check Till, and a large quantity of Drugs, Fancy Goods, etc.

On view morning of Sale.

Catalogues may be obtained at the Auctioneer's Office, 53 Rosemary Road, Clacton-on-Sea.

TO LET.

BEVERLEY, East Yorkshire.—Lock-up Shop.—To Let, with immediate possession, the Shop opposite Register Square; for many years in the occupation of Messrs. T. Marshall & Son, Chemists and Druggists; best business site in Beverley; complete with fixtures. Apply for particulars at the "Independent" Office, Beverley.

LEICESTER.—Commanding Shop Premises to Let; excellent position, in busy market thoroughfare; centre of town; splendid opportunity for up-to-date Cash Chemist's; rent moderate. 207/41, Office of this Paper.

GOOD corner Premises may be had at Lady Day; owner seeks to Let to qualified Chemist to dispense medicine and also to sell Patent Medicines and Photo materials; knowledge of Veterinary treatment an advantage. Apply, "J. T. F.," 30 Queen's Road, Reading.

SPLENDID Opening for Chemists.—To Let, in an attractive parade of shops, newly erected in established district, convenient Shop with good house accommodation; private entrance; rent only £40 per annum. Apply, Hudson, 87 Finsbury Pavement, E.C.

TO Let, populous neighbourhood, Bristol, Shop and Dwelling-house; good opening for Chemist. Apply, William Dudd, 9 Christmas, Bristol.

PARTNERSHIPS.

GENTLEMAN, young and energetic, with good Pharmaceutical training, 10 years' varied experience, seeks working Partnership or share in Chemist's Business; Retail or Wholesale; capital £100 to £150, or would like to meet with one who would combine in purchasing business. Reply, in confidence, to "M. C." (175/34), Office of this Paper.

HIGHLY qualified Pharmaceutical Chemist, with long experience and good facilities to manufacture and introduce Pharmaceutical Preparations, wishes to join a firm of Manufacturing Chemists to introduce new and promising Pharmaceutical Specialities. Reply, 174/9, Office of this Paper.

SMALL private company, owning old-established business (London) and valuable Proprietaries, requires qualified Chemist to Manage branch and invest £500 or more for extension; salary £100, with good profits and excellent prospects; no one (whatever his means) unable to give excellent references as to character and ability need apply. G. de G. Griffith, Solicitor, 50 Buckingham Palace Road, S.W.

YOUNG gentleman with £200 to £500, having had good London training and experience, desires an active interest in any business (not Retail) that will bear investigation. Write, giving full particulars (in confidence), to "Genuine" (178/4), Office of this Paper.

PREMISES FOR SALE.

FOR Sale.—In good West Country town, centrally situate and old-established corner Shop, with two others adjoining, one now in the occupation of a Chemist, the second of a Hosier and the third of a Draper; the properties are situate at the junction of the two principal thoroughfares in the town; they will be sold separately, and possession of the Chemist's Shop and one of the adjoining premises can be had on completion of the purchase. For full particulars, apply to Messrs. Davis & Champion, Auctioneers and Estate Agents, 16 Kendrick Street, Stroud, Glos.

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3s. 6d. *for* **50** *words or less;* **6d.** *for every* **10** *words beyond, prepaid.*

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RETAIL.

ACTON, W.—Junior required with good knowledge of Counter work; able to control and assist in making and packing Proprietaries; hours 8.30 to 9.30; one day off at 2, one evening at 8; in or out doors. Full particulars to A. Roberts, 187 High Street.

BEDFORD.—Junior Assistant; Light Country Retail; must be gentlemanly and of good address and appearance; outdoors. Wyatt, Chemist, Bedford.

BIRMINGHAM.—Junior Assistant for good-class Cash business; must be a good Counterman and Dispenser. Apply, giving full particulars of experience, age, height, salary required (outdoors), and send photograph if convenient, to Hedges & Son, Pharmacists, Birmingham.

BRIGHTON.—Wanted, a qualified indoor Assistant. Apply, with full particulars, stating age, height, salary required, to Glaisyer & Kemp, 11 and 12 North Street, Brighton.

CAPE COLONY.—Qualified Assistant wanted to manage, single-handed, branch business in small town in healthy pastoral district; one with experience of selling Photographic and Optical Goods; quiet, respectable, Church-going man; fair salary; if passage paid 3 years' agreement will have to be signed. Apply, with particulars of experience, to "J. F." (181/24), Office of this Paper.

CHELTENHAM.—Junior Assistant or Improver wanted immediately (indoors, one only kept), for Light Retail, Dispensing, and Photographic business; no Extracting required. In reply please state age, height, experience, reference, and salary required, with photo (if convenient), to Arthur Hill, Chemist and Dentist, 98 High Street, Cheltenham.

CHINA.—A qualified Assistant for high-class Chemist's and Druggist's business; aged 22 to 28; must have had good experience in first-class house; liberal salary offered, and passage paid out and home. Address, "China" (177/4), Office of this Paper.

COLOMBO.—Junior qualified Chemist's Assistant (about 23), with Optical knowledge preferred; liberal terms; short hours; passage paid out and home; 4 years' agreement. Apply, by letter only, giving full details of experience, to Dakin Brothers, Ltd., 82 Middlesex Street, Bishopsgate Street, E.C.

SITUATIONS OPEN *(continued).*

DEVON (Seaside).—Wanted, a thoroughly reliable Assistant; outdoors; no Sunday duty; practical knowledge of Photography essential. Apply, with full particulars, to C. F. Gosney, The Pharmacy, Seaton, Devon.

FOLKESTONE.—Qualified man wanted to manage business in working-class neighbourhood; good Stockkeeper; outdoors. Write, stating age, salary required, and full particulars, experience, etc., to Taylor, Chemist, 101 Dover Road, Folkestone.

HASLINGDEN.—Wanted, Assistant; qualified. State age, experience, and salary required (outdoors), to C. O. Wain, 8 Church Street, Haslingden.

INDIA.—Hill station, with perfect climate.—Wanted, for high-class European Retail and Dispensing business, a smart, gentlemanly, and capable Assistant; single and able to take charge; must have first-class General experience and undeniable references; qualification not essential; knowledge of Photography preferred; 4 years' agreement; salary 200 rupees per month first year, increasing to 275 rupees fourth year; furnished quarters provided and free passage out and home. Apply, with fullest particulars, O.K. 722, c/o Deacon's, Leadenhall Street, E.C.

KIDDERMINSTER.—Morgan & Lawley require, on February 22, an experienced, qualified Assistant; indoors; half-day's holiday weekly; night duties light; references must bear closest investigation. Apply, Maurice Smith, Ph.C., F.S.M.C., Vicar Street.

LECHLADE (on the Banks of the Thames).—Wanted, qualified Assistant, single, aged about 25, for small Country business; Photographic work; indoors; easy hours; no night or Sunday duty. Full particulars with photo, unless interview can be arranged, to Mrs. G. A. Davis, Lechlade, Glos.

LONDON Suburb.—Qualified Assistant (indoors), prospect Branch Manager (outdoors); good-class Retail, Dispensing, and Photographic; half-day weekly; Sunday duty 2½ hours fortnightly. Particulars, including age, height, experience, salary required, enclosing photo, to Matthews (Cash Chemists), Ltd., High Road, Leyton, N.E.

LONDON, N.W.—Qualified Assistant (about 25), indoors, for good-class Retail and Dispensing. Lapthorn, 79 Abbey Road, N.W.

LONDON, S.W.—Assistant; good Dispenser; used to good Cash Business; must be capable of being left in charge; sleep in, board out; half-day holiday weekly; alternate Sundays; letters not answered in three days declined. Apply, 179/10, Office of this Paper.

LONDON, S.W.—Wanted, a Junior (about 25) accustomed to good-class trade; good Window-dresser; outdoors; personal application preferred. Lloyd, 125 St. John's Hill, Clapham Junction, S.W.

LONDON, N.—Smart Junior, March 1st or later, not under 22, for Dispensing and Photographic business. Apply personally, or enclose photo with full particulars, to W. A. Sinclair, 7 King's Parade, Church End, Finchley.

LONDON Suburb.—Wanted, young, smart, qualified Assistant Manager for Store trade. Reply, giving usual particulars as to age, height, salary, etc., and enclosing photo, to 182/10, Office of this Paper.

LONDON, W.—Wanted, capable Counter Assistant, unqualified, age 25 to 30, for modern Store business. Apply, with usual particulars, to "Pharmacie" (181/40), Office of this Paper.

MACCLESFIELD.—Branch Manager; qualified; married; permanency; house, gas, rates; early March. State age and salary, Hammond, Chemist, Bollington, Macclesfield.

MANCHESTER.—Wanted, qualified Manager for branch; half-day off weekly; alternate Sunday night duty; middle-class Cash business. Send full particulars to H. Lockwood, Chemist, Harpurhey, Manchester.

S.W.—Earl's Court Road.—Smart Assistant, with Photographic experience, for high-class Store business; outdoors; hours 8.30 to 9, Saturdays 8.30 to 9.30; Sunday duty every second, 6 to 8 P.M. Apply, Bruce's, Ltd., 28 The Broadway, Ealing, W. If by letter, age, height, and experience.

TUNBRIDGE WELLS.—Wanted, Junior (19-20, indoors), for Dispensing and Photographic business. State age, height, experience, and references, with photo, W. A. Phillips, Chemist, Tunbridge Wells.

WEYBRIDGE.—Reliable Junior Assistant for high-class Dispensing business; aged about 22; indoors; good Dispensing experience, and a good Counterman essential; Photography. Send photo and full particulars as to references and salary required to E. T. Neathercoat, Pharmaceutical Chemist, Weybridge.

WEST-END.—A young Assistant of good appearance required for Window-dressing and Stockkeeping; an excellent opportunity of obtaining experience in this class. Apply, giving full particulars, to 182/9, Office of this Paper.

YORK.—Wanted, Assistant; must be quite familiar with Country trade; qualified; long experience not necessary; outdoors. Folkard, Chemist, Pavement, York.

ASSISTANT, age about 20, in good-class Country business; indoors; short hours; comfortable home; also vacancy for Apprentice. C. E. Ison, Pharmacist, Atherstone.

BRUNTON & CO. have a vacancy for a qualified Assistant with good experience; indoors. 240 Earl's Court Road, S.W.

CHEMIST, qualified, with Dental knowledge (Extracting and Filling), Prescriber, for Country business; North-West of Scotland; good opening for middle-aged man; single; abstainer preferred; permanency. Apply (with photo if possible), giving full details of experience, salary, references, etc., to 178/36, Office of this Paper.

COUNTRY town; qualified Assistant for small business; must be able to Extract and take Impressions; no mechanical work done; single handed; very easy berth and good hours. Give particulars of experience and state salary required to 175/6, Office of this Paper.

DISPENSER and Secretary wanted for the Willesden Green Provident Dispensary; salary for the joint duties £75 per annum, with unfurnished rooms at the Dispensary. Candidates of either sex should apply, by letter only, to "J. F. O.," 14 Blenheim Gardens, Cricklewood, N.W., by Thursday next, 18th instant, stating age, qualifications, experience, etc.

MANAGER wanted for middle-class Suburban Retail; one with knowledge of Optics preferred; salary £120 per annum, with rooms, gas, etc. Apply, 178/6, Office of this Paper.

QUALIFIED Assistant (aged about 26), outdoors, for high-class Dispensing business; must be thoroughly competent and reliable, and have had good Dispensing experience; required for March 1. Send photo and fullest particulars to E. T. Neathercoat, Pharmaceutical Chemist, Weybridge.

QUALIFIED Assistant wanted for good-class Dispensing business and take occasional charge of branch; indoors. Give full particulars to "Midlands," c/o Messrs. Barron, Harveys & Co., Giltspur Street, E.C.

QUALIFIED Assistant wanted for Mixed business in town near Manchester; age about 25; weekly half-holiday; no Sunday duty. Apply, stating usual particulars, to 177/28, Office of this Paper.

QUALIFIED Assistant wanted to take principal charge, with an occasional day at branch shop; young man; indoors preferred. State age, experience, and qualifications (personal character of great importance), Ward, Conisboro', Rotherham.

QUALIFIED Branch Manager; 26 to 40; Lancashire manufacturing town; good Counterman; Store experience preferred; abstainer; half-holiday; no Sunday duty; outdoors; 1st week in March. State age, height, salary expected, photo (to be returned), "Vinci" (206/11), Office of this Paper.

QUALIFIED Branch Manager for Colliery district; Welsh speaking; abstainer; one seeking permanency; must be thoroughly reliable. Photo and particulars to D. George, Pentre, Glam.

WANTED, for Liverpool, a qualified Branch Manager. Apply, stating age, experience, and salary required (outdoors), to "Phenacetin," c/o Evans Sons Lescher & Webb, Ltd., 56 Hanover Street, Liverpool.

WANTED, immediately, a qualified Assistant, not over 35; must be well recommended, have a gentlemanly appearance and address, and be a good Salesman. Applications (personal preferred) must contain full particulars as to age, height, experience, references, recent photo (salary 45*s*., outdoors), Parson C. Baker, 174 Victoria Street, S.W.

WANTED, February 22, a gentlemanly Junior, unqualified (outdoors), for a good-class Dispensing business. Apply, with full particulars as to salary, age, height, references, etc., to C. Read, Chemist, Camberley, Surrey.

WANTED, Private Tutor for second-class College of Preceptors. Terms to "G. S.," 6 Darnley Road, Hackney.

Coming Events.

Notices for insertion under this heading should be received by the Editor on Wednesday of each week.

Monday, February 15.

Royal Society of Arts, John Street, Adelphi, London, W.C., at 8 P.M. Mr. Leon Gaster on "Modern Methods of Artificial Illumination," Cantor Lecture (I.).

Tuesday, February 16.

Huddersfield Chemists' Association, Queen Hotel, at 8.45 P.M. Discussion on "Patent Medicines: (*a*) As they Affect the Public Health; (*b*) Are Chemists Rendering Useful Service and Employing their Training to the Best Advantage in the Public Interest by Handling these Goods?"

Oldham Pharmaceutical Association, Oriental Restaurant, at 6 P.M. Annual dinner. Mr. J. R. Young (President of the Pharmaceutical Society) will be present. Tickets from Mr. T. Baker (Hon. Secretary), 37 Yorkshire Street.

Wednesday, February 17.

Royal Microscopical Society, 20 Hanover Square, London, W., at 8 P.M. Mr. A. A. C. E. Merlin on "A German-silver Powell Portable Microscope made in 1850"; Mr. G. S. West on "The Red Snow-plant—*Sphærella nivalis*."

Pharmaceutical Society of Great Britain, North British Branch, 36 York Place, Edinburgh, at 8.30 P.M. Evening meeting. Mr. John Lothian, Ph.C., on "Crystallisation in Mixtures Containing Magnesium Sulphate with Ammonium or Potassium Bromide"; Mr. E. J. Brown, Ph.C., on "The Chlorinated Solutions of the B.P."; Mr. Peter Boa, Ph.C., on "The Official Preparations of Orange and Lemon."

Western Chemists' Association, Restaurant Frascati, Oxford Street, London, W., at 9 P.M. Discussion on the "Poisons and Pharmacy Act, 1908," opened by Mr. C. B. Allen.

Plymouth, Devonport, and Stonehouse Chemists' Association, 7 Whimple Street, Plymouth. Address to pharmacy students by Mr. F. A. Goodwin, Ph.C.

Nottingham Pharmaceutical Association, Mikado Café, at 8 P.M. Discussion on "Chemists' Proprietaries." Mr. C. C. H. Cadge will speak for co-operation and Mr. S. H. Platten for individualism.

Sheffield Pharmaceutical and Chemical Society, Literary and Philosophical Society's rooms, at 9 P.M. Mr. J. Austen on "Poisonous Plants Growing in the Neighbourhood of Sheffield."

Thursday, February 18.

Chemical Society, Burlington House, Piccadilly, London, W., at 8.30 P.M. The following papers will be communicated: "A Study of some Asymmetric Compounds," by Dr. F. S. Kipping; "The Decomposition and Sublimation of Ammonium Nitrite under Heat," by Dr. P. C. Ray; "The Estimation of Hydroxyl Derivatives in Mixtures of Organic Compounds" and "A Simple Method for determining the Chemical Affinergy of Organic Substances," by Mr. H. Hibbert; "The Isolation of the Aromatic Sulphinic Acids," by Mr. J. Thomas; "Analytical Investigation of Zirconium Metal" and "Chlorine generated by Potassium Permanganate, its Preparation and Purity," by Messrs. E. Wedekind and S. Judd Lewis.

Glasgow and West of Scotland Chemists' Association, 180 West Regent Street, Glasgow, at 9 P.M. Mr. Thomas Stephenson, F.C.S., Ph.C.(Edinburgh), on "Radium and Radioactivity."

Chemists' Assistants' Association, 73 Newman Street, Oxford Street, London, W., at 9 P.M. Mr. W. J. U. Woolcock, Ph.C., on "The Pharmaceuical Defence Union."

Blackpool and Fylde Chemists' Association, Palatine Hotel, Blackpool, at 8.45 P.M. Annual meeting.

Bradford Chemists' Association, Royal Hotel, Darley Street, at 9 P.M. Mr. Stamford on "Trade Union Policy."

Peterborough Chemists' Association, Grand Hotel, at 6.15 P.M. Annual dinner, at which will be present Mr. R. Winfrey, M.P., and Mr. J. R. Young (President of the Pharmaceutical Society). Tickets (5*s*. each) from Mr. John W. Hall, 6 Long Causeway.

Friday, February 19.

Royal Institution of Great Britain, Albemarle Street, Piccadilly, London, W., at 9 P.M. Sir Henry Cunynghame on "Recent Advances in Means of Saving Life in Coal-mines."

Bournemouth Pharmaceutical Association, Gervis Hall Restaurant, at 8.30 P.M. Demonstration of the use of the typewriter in pharmacy and other business.

The annual dinner of the School of Pharmacy of the Pharmaceutical Society of Great Britain will be held on February 23, in the Caledonian room of the Holborn Restaurant, London, W.C. Tickets (6*s*. 6*d*. each) from Mr. W. A. Storey or Mr. G. Gadsdon (Hon. Secretaries), 17 Bloomsbury Square, W.C.

The annual dinner of the Leicester Chemists' Association will take place at the Grand Hotel on February 25. Tickets can be obtained from the Hon. Secretaries, Mr. G. E. Marfitt, Infirmary Square, and Mr. C. J. Avery, Loughborough Road.

The twenty-eighth annual Junior Pharmacy Ball will be held at the Portman Rooms, Baker Street, London, W., on Wednesday evening, March 10, beginning at 9 P.M., to the music of Mr. Mortlake Mann's orchestral band. The list of stewards is exceptionally long this year, and the committee who have charge of the arrangements comprises Messrs. Ralph L. Cassie, T. Coulson, R. D. Dixon, C. W. Martin, A. H. Solomon, Herbert C. Wright, and J. E. Southon (Hon. Secretary), 8 Leadenhall Street, London, E.C. Tickets (7*s*. 6*d*. each, including supper and light refreshments) may be obtained from the Hon. Secretary, or from any of the stewards or members of the committee.

The Flora of Algeria.

Dr. Alfred S. Gubb, of Mustapha-Supérieur, during his residence in Algiers has been busy with his camera, and is bringing together 150 photographs of trees and plants in book form. This photograph of jaborandi is one of his efforts. Dr. Gubb finds that plant-life in the præ-tropical climate of

Algiers is quite different from that of Central and Northern Europe. This collection comprises the common trees and shrubs to be seen in the course of a day's ramble. Lieutenant-Colonel David Prain, F.R.S., Director of the Royal Botanic Gardens, Kew, has verified the names, and Professors Trabut and Herail, of Algiers, have assisted in identifying the specimens. "The Flora of Algeria" is to be published at 5f. by Imprimerie Algérienne, 30 rue Sadi-Carnot, Algiers.

Ground Pepper.—The Dominion Government, through the Department of Inland Revenue, has just issued a bulletin on ground pepper, which gives the result of analyses of 298 samples procured in the open market throughout the whole of Canada. Of 146 samples sold as white pepper, thirty-two, or 22 per cent., were adulterated, and of 152 samples sold as black pepper, thirty-seven, or 24 per cent., were adulterated.

Epileptics.—Dr. Elizabeth S. Chisser communicates an interesting article on "The State and the Epileptic" to the "Westminster Review" for February. She says the "farm colony is the ideal method of treating epileptics," and "segregation of epileptics is the only method of preventing the manufacture of epileptics." State control is suggested as the means for ensuring farm colonies and segregation.

India and the East.

(From the "C. & D." Correspondent.)

COCAINE - SMUGGLING IN CALCUTTA. — Two cocaine-smugglers have been heavily fined in Calcutta. The Superintendent of the Excise Preventive Department, on searching some houses, found large quantities of the drug concealed in wooden pillows and among cooking-utensils.

OPIUM FOR CHINA.—There were large withdrawals from the Bombay Government Opium Warehouse during the week ended January 5, no fewer than 7,437 chests having been requisitioned, practically all for export to China. The export season has set in with the new year, and withdrawals will continue until the limit fixed by the Indian Government for the current year is reached.

LAC is officially stated to be likely to become one of the most important products of the Assam Province, where it is now successfully propagated by cultivators on leased lands. The Forest Department is also aiding the industry, and among useful experiments carried out by it in the year ended June 1908 was the planting-out of over twenty acres of forest land in Buxa, Goalpara, Cachar, and Sylhet with "arhar," with a view to propagating lac.

OPIUM COMMISSION.—This Commission was opened at Shanghai on Monday, February 1, under the Presidency of the Viceroy Tuan-fang. In his opening speech the Chairman said that since the edict of September 1906 the cultivation of the poppy in China has been largely reduced, and the consumption of opium diminished by half. He predicted that total cessation would occur in three years. After making this statement the Viceroy withdrew, and Bishop Brent was unanimously nominated President of the Commission. Mr. Carey, Commissioner of Customs, and M. Gieter, interpreter to the French Consulate, were elected Secretaries of the Commission, and Mr. Robert Laidlaw, M.P., was appointed to draw up standing orders for regulating the deliberations.

THE SALE OF POTASSIUM CYANIDE in the Straits Settlements is now regulated under Section 13 of the Poisons Ordinance, 1905, by which the cyanide can only be sold by those licensed under that Ordinance. Except on the prescription of a registered medical man, it will in future only be sold in unopened bottles or earthenware jars of not less than 1 lb., each bottle or jar to bear the name and address of the seller. No unlicensed assistant or other person employed in the shop or on the premises of a licensed person is allowed to make a sale, and (except in the case of prescriptions) the purchaser must be either personally known to the licensee as of good repute or vouched for by a respectable householder. The sale must be entered in the poisons-register and signed for by the purchaser, and if the purchaser is vouched for by another person, he also must affix his initials to the entry. It appears that the increasing industrial use of cyanide and its use by coiners have brought about these new regulations.

QUININE TABLETS IN THE DUTCH EAST INDIES.—In commenting on the last report of the Bandong Quinine-factory, mention was made of the growing popularity in Java of the sugar-coated quinine tablets introduced by the factory. The Director of the Medical Service, in a circular issued recently, calls attention to the regulations enacted by the Java Government in 1905, 1906, and 1907 dealing with the distribution of free quinine to certain privileged persons and to the necessitous poor, and states that in future this will be issued through medical men, missionaries, and district officials in the form of quinine tablets. He also calls attention to the fact that persons entrusted with the distribution of free quinine have in past years drawn supplies not only for the indigent poor, but for people quite well able to purchase it, and suggests that in future the demand for quinine must be reduced by confining free distribution to the privileged persons and the necessitous poor, who alone are really entitled to receive it. The foregoing applies to Java only. In the outlying areas the quinine distributed will in future also be given in the form of tablets, and regulations governing the distribution of quinine similar to those in force in Java are foreshadowed.

American Notes.

(From the "C. & D." Correspondent.)

A POISON BILL.—The drug-trade of the country is up in arms over the prospect that the so-called Mann Bill may prove successful in the National Congress. The measure lists about eighty or ninety alkaloidal and chemical substances which, when contained in any galenical or proprietary article, will render compulsory the use of a poison-label, the publication of the skull and crossbones design, and the names of one or more suitable antidotes on the package. This proposal involves hundreds of N.F., U.S.P., and proprietary preparations.

PRICE-CUTTING.—America has been quite free from cut-rate wars during the last two or three years. The N.A.R.D. has apparently caused the druggists of the country to live together in brotherly harmony. Now, however, a fierce battle has broken out in the city of Atlanta, Georgia. The three largest druggists are endeavouring to undersell one another, and on successive days well-known proprietary medicines marked to sell for 50c. are being offered at 25c., 24c., and 23c., and no one knows when the bottom will be reached. Such wars are always disastrous, and never result in benefit to anybody.

N.A.R.D.—The Executive Committee of the N.A.R.D., charged with the conduct of affairs between the annual conventions, held its semi-annual meeting in Chicago recently, and decided to make the "propaganda work" among physicians on behalf of U.S.P. and N.F. preparations the one great issue of the organisation. One letter a month on the subject will be issued from national headquarters, and will be mailed to those physicians in each locality whose names are furnished by dues-paid druggists. The next meeting will be held in Louisville, beginning September 6, and an invitation will be extended to the A.Ph.A. to hold its convention at the same time and place.

RAISING REVENUE.—The National Government, in common with that of other leading nations of the world, has found during the last year that its revenue has been insufficient to pay its expenditure. The present Congress has suggested several means of increasing receipts, and among other propositions has been one that the tax features of the Spanish War Law be restored, which would mean the imposition of stamp-taxes on proprietary medicines, commercial paper, and the like. The mere suggestion has caused the drug-trade of the United States to prick up its ears. The tax of 1898 was at the rate of 4c. per dollar, and the druggists of the country were overjoyed when the law was repealed several years later.

DRUG-IMPORT LAWS.—It has been previously pointed out in these notes that drug-importers are much dissatisfied with the conflict between the importation law of 1848 and the importation features of the Food and Drugs Act of 1906. The latter sets up the U.S.P. as the sole standard, while the former accepts the requirements of the countries from which particular shipments are received. Drug-importers have taken up the subject with the present Congress, but have been told that no legislation will be considered this winter which does not have to do exclusively with the revenue. The plan will therefore be to draft a new Importation Bill intended to succeed both the law of 1848 and the import provisions of the Food and Drugs Act, this new measure to be introduced into the next Congress.

FOOD PRESERVATIVES.—Developments in Washington are coming thick and fast over the Federal Food and Drugs Act. There has been friction between Dr. Wiley, chief chemist, and others in the Government service, particularly over the subject of preservatives in foods. During last month Dr. Wiley published two bulletins for the purpose of indicating and proving the deleterious effects of sodium benzoate and formaldehyde. The other two members of the Board of Food and Drug Inspection, Dr. Wiley's colleagues, refused to sign these bulletins for the reason that the whole subject of preservatives had been especially referred to a board of referees appointed by President Roosevelt, with Dr. Ira A. Remsen, of Johns Hopkins University, Chairman of the committee. These

two members of the Board of Food and Drug Inspection, in the meantime, have issued a ruling declaring that, until the Committee of Referees furnished its report, the use of sodium benzoate would be permitted as a preservative in quantities not greater than one-tenth of 1 per cent. To this ruling Dr. Wiley in turn refused his signature. Now, as the final development in the situation, the Committee of Referees has reported that sodium benzoate in small quantities is not a deleterious preservative. The report has been approved, and on this point Dr. Wiley is therefore defeated. These and other conditions have given rise to frequent rumours that Dr. Wiley's official head was in danger.

Colonial and Foreign News.

Wax from Sugar-cane.—The Georgetown "Daily Argosy" (British Guiana) states that a patent has been applied for with respect to a process for the extraction of wax from the sugar-cane. It seems that the rind of the cane contains a certain proportion of wax which has hitherto been lost with the refuse. By the new process this wax is now recovered from the filter refuse and turned to commercial uses. It is estimated that one ton of cane will yield 0.4 kilo. of wax similar in its characteristics to beeswax or carnauba wax.

The Owners of Pharmacies in Bohemia have experienced a rather uncomfortable shock owing to the very decided action taken by the Governor to enforce the long outstanding question of improving the salaries of pharmacists' assistants. The dispensing-tax which is levied on every medicine made up from a prescription was re-introduced on the understanding that it would go towards improving the salaries of assistants. But it has not, and the Governor has addressed an injunction to the Apotheker Gremium of Bohemia to take the necessary steps to settle the matter, otherwise the Government will suspend the tax.

The Scott Case.—We reported some months ago the facts in connection with medicine frauds committed in Berlin by an American named William Scott. He was arrested and charged, but was let out on bail of 100,000m. (5,000*l*.). He absconded, but last week his secretary and manager, one Durlow, was sentenced to three months' imprisonment for perjury. It is stated that in Hamburg alone Scott made from 3,000m. to 4,000m. per week, and in Berlin his profits were estimated at about 250,000m. per annum. He had another large depôt in Paris, and was supposed to have an office in London, but this is denied here.

Nitrates from the Air.—The British Vice-Consul at Zurich reports that a large firm in Switzerland propose to manufacture nitric acid and saltpetre from atmospheric nitrogen. The firm have recently concluded an agreement with the proprietors of a new patent, by which the patents for Switzerland and Austria-Hungary become their property. The exploitation of the process in other countries will be done conjointly by the two companies, either by working it in their own factories, or by granting licences, or by the sale of the patent. Extensive works are being built at Chippis, in the canton of Valais, for the manufacture of nitric acid and nitrates, and it is hoped to commence working in the course of the year 1909.

Pharmacists of German Descent in the Russian Baltic provinces have recently been displaying considerable activity. Several associations which were moribund are being welded together, and a monthly journal has been published in German at Libau since April. The first meeting of Baltic pharmacists was held at Riga recently, ninety members attending. The principal subject discussed was the proposed change in Russian pharmacy law, to which the Germans are opposed, and a resolution was passed to the effect that "although a large number of substitution-products are chemically identical with the original preparations, the former should not be dispensed as long as the statements in the Pharmacopœia and the prices given in the State prescription-tariff are based upon the original preparations"

Saccharin-smuggling in Switzerland.—A remarkable case of smuggling is reported from Switzerland. It appears that the sole agent for a well-known brand of champagne for Austria found from the newspapers that the imports of this wine from Basle into that country showed a greater development than his consignments did. In order to clear up the mystery he put himself into communication with the Austrian Customs authorities, and it was then discovered that consignments of saccharin in a liquid form were being made at Basle in bottles identical with those of the firm of Heidsieck. At the Customs House the champagne-duty of 90 hellers was charged on the bottles, instead of 200 kronen, which should have been paid for the saccharin. It is said the Austrian Treasury have lost half-a-million crowns by this fraud, which has been systematically carried on for over a year.

Russian International Exhibition of Latest Inventions.—Under this title an exhibition is to be held in St. Petersburg from April to June of this year. According to the prospectus, the exhibits are to include chemical and medicinal products, pharmaceutical preparations, etc. Mr. D. A. Ruffmann, of Messrs. Parke, Davis & Co., has been appointed to the committee in the capacity of consulting member for foreign affairs, and he looks upon the exhibition as a unique opportunity for British firms to obtain a footing in Russia by participating in the exhibition. All they require to do is to ship their exhibits without loss of time, addressing them to the Committee of the International Exhibition of Latest Inventions (under the auspices of his Imperial Highness the Heir to the Throne, the Grand Duke Alexis Nikolaievitch), St. Petersburg. At the same time they should fill in the invoice-form (denomination of articles) the information desired by the Committee of Experts, and also include a cheque to cover space-rent and advertisements in catalogue (if any). Intending exhibitors can see a copy of the prospectus at The Chemist and Druggist office.

The Week's Poisonings.

Ten fatalities from poisoning have occurred during the week, including one misadventure. Death in two instances was due to Part I. poisons, while poisons in Part II. of the Schedule were the lethal agents in five instances. An unscheduled poison, spirit of salt, was taken in three cases with suicidal intent.—Mr. Godfrey F. E. Allison, M.B., was found dead in the study of the medical practitioner to whom he was assistant, with a bottle that had contained prussic acid by his side. At the inquest it was shown that deceased was worried concerning a partnership proposal. The usual verdict was returned.—Susannah Mardon (64), the wife of a retired miller, owing to nerve-trouble and insomnia, ended her existence by taking a poisonous liniment, which apparently contained aconite.—An Edinburgh labourer, named John Waters (35), who had developed the habit of taking laudanum to induce sleep, died in the infirmary from an overdose of the drug.—George A. Ward (65), an asthmatic, committed suicide at Nottingham by taking laudanum.—Margaret Van Hollister (29), actress, was found dead in Buckingham Palace Mansions, London, S.W. Deceased had been accustomed to taking hypnotics. At the inquest Dr. Freyberger stated that the symptoms were consistent with death from chloral-hydrate poisoning. The jury returned a verdict of suicide while temporarily insane.—Julia Race (55), provision-dealer, was found at Gospel Oak Grove, London, N.W., having died from oxalic-acid poisoning.—Harriet Nicholls (46) committed suicide at Barking by taking oxalic acid.—A verdict of suicide was returned at the inquest on Fanny Smith (39), of Brighton, who died from spirit-of-salt poison. The same acid caused the death at Ilford of Lavinia Cope (32), who was worried because her baby was an albino.—Dr. F. J. Waldo, the City Coroner, held an inquest on Thursday regarding the death of John Wood (62), a Customs watcher, who had taken oxalic acid and spirit of salt. A constable had given an antidote, but the man died in St. Bartholomew's Hospital, and Dr. Cockayne said that death was due to spirit-of-salt poisoning. A verdict was returned accordingly.

New Books.

These notes do not necessarily exclude subsequent reviews of the works. Any of these books printed in Great Britain can be supplied, at the published price, to readers of this journal on application (with remittance) to the Publisher of "The Chemist and Druggist," 42 Cannon Street, London, E.C.

Adie, R. H. *Junior Chemistry.* Cr. 8vo. Pp. 274. 2*s.* 6*d.* (Clive.)

Austen Leigh, E. C. *A List of English Clubs in all Parts of the World, 1909.* 6¼×4. Pp. 195. 3*s.* 6*d.* (Spottiswoode & Co., Ltd., London, E.C.) [This is the seventeenth year of this useful publication. It gives the name and address, year of origin, number of members, entrance-fee, subscription, secretary's name, and the objects of clubs in London, the provinces, Europe, Australasia, America, Canada, Africa, West Indies, etc.—in fact, all those that are interesting to Britishers. There are references to 2,201 clubs in Great Britain and Ireland, and 1,101 in foreign countries and British Colonies. Of the total 1,168 are golf-clubs and 319 ladies' clubs. Presumably only clubs which have club-houses are included, otherwise we should find in it references to the Chemical Industry Club, the Drug Club, the Pharmacy Club, and other important associations of individuals which might be mentioned in the same category as the Sphinx Club and the Pilgrims'. On the page where the two latter are mentioned we observe that Mr. P. W. Squire is secretary of the Thames Punting Club.]

Brown, W. L. *Physiological Principles in Treatment.* 7½×4¾. Pp. 352. 5*s.* net. (Baillière.)

Chemical-manufacturers' Directory of England, Wales, and Scotland, with some of the Firms in Ireland, for 1909. 8vo. 2*s.* 6*d.* net. (Simpkin.)

Coakley, C. G. *Manual of the Diseases of the Nose and Throat.* 4th edit. Cr. 8vo. 14*s.* net. (H. Kimpton.)

Combe, A. *Intestinal Auto-Intoxication.* 8vo. 16*s.* 6*d.* net. (Rebman.)

Connell, A. C. *Pitman's Companies and Company Law.* 5¾×8½. Pp. 344. 5*s.* net. (Pitman.)

Corbion, W. A., and Grimsdale, G. E. *Salesmanship.* 7¼×4¾. Pp. 157. 2*s.* 6*d.* net. (Sir Isaac Pitman & Sons, Ltd., 1 Amen Corner, London, E.C.) [The introductory chapter states that "business is founded on service," and then are given the characteristics included in the general term "service." Attention to business and department are dealt with next, followed by the relationship of character to salesmanship. Service and conduct and the knowledge and care of stock are the subsequent sub-heads considered. Salesmanship occupies two chapters and blunders another, while two chapters on system finish the work. Each chapter is subdivided under various heads, and cases or examples cited to illustrate exact meaning.]

Evans, E. *Plants and their Ways: An Introduction to the Study of Botany.* 7¼×4¾. Pp. 180. 1*s.* 4*d.* (Dent.)

Fenwick, E. H. *Value of Radiography in the Diagnosis and Treatment of Urinary Stone.* 8¾×5½. Pp. 158. 10*s.* 6*d.* net. (Churchill.)

Fleming, J. A. *An Elementary Manual of Radiotelegraphy and Radiotelephony.* 9×5¾. Pp. 354. 7*s.* 6*d.* net. (Longmans.)

Fletcher, J. D. *The Weights and Measures Acts,* 1878 to 1904. 8¾×5½. Pp. 142. 5*s.* net. (Sherratt & H.)

Forward, C. *All about the Income-tax, House-duty, and Land-tax.* 9th edit. Cr. 8vo. Pp. 132. 1*s.* (Ward, L.)

Goodall, E. W., and Washbourn, J. W. *Manual of Infectious Diseases.* 2nd edit. 8¾×5½. Pp. 438. 14*s.* net. (H. K. Lewis.)

Holmes, G. J. *The Investor's Blue-book for* 1909. 7¼×4⅝. Pp. 509. 3*s.* 6*d.* ("Investors' Chronicle" Offices, Tower Chambers, London Wall, E.C.) [The contents give the essential facts, officially checked, with regard to over 2,000 public securities. Balance-sheets of the leading industrial companies for the past two years are reproduced, while their history is briefly reviewed. Special articles by financial writers are included, while an index, with explanatory notes, completes the book.]

Ingle, H. *Elementary Agricultural Chemistry.* 8×5¼. Pp. 260. 4*s.* 6*d.* net. (C. Griffin.)

Johnson, C. N. (ed.). *A Textbook of Operative Dentistry.* By Various Authors. 8vo. 25*s.* net. (Rebman.)

Johnson, G. L. *Photographic Optics and Colour Photography.* 8⅝×5½. Pp. 304. Illustrated. 7*s.* 6*d.* net. (Ward & Co., 34 Craven Street, London, W.C.)

Kerly, D. M. *The Law of Trade-marks.* 3rd edit. Royal 8vo. 35*s.* (Sweet & M.)

Lamb, W. *Practical Guide to the Diseases of the Throat, Nose, and Ear.* 2nd edit. 7½×5. Pp. 338. 7*s.* 6*d.* net. (Baillière.)

Law, E. F. *Alloys and their Industrial Applications.* 8¾×5½. Pp. 286. 12*s.* 6*d.* net. (C. Griffin.)

Lewis, E. I. *The Elements of Organic Chemistry.* 7×4¾. Pp. 232. 2*s.* 6*d.* (Clive.)

Lodeman, E. G. *The Spraying of Plants.* 7¾×5¼. Pp. 418. 5*s.* net. (Macmillan.)

Lowson, J. M. *Second Stage Botany.* 3rd edit. 7×4¾. Pp. 504. 4*s.* 6*d.* (Clive.)

Mann, J. D. *Physiology and Pathology of the Urine.* With Methods for its Examination. 2nd edit. 8¾×5½. Pp. 338. 10*s.* 6*d.* net. (C. Griffin.)

Marsden, R. W. *Practical Text-book on Infectious Diseases.* 7½×5. Pp. 304. 5*s.* net. (Sherratt & H.)

Mathewson, C. H. *First Principles of Chemical Theory.* 8vo. 4*s.* 6*d.* net. (Chapman & H.)

Morgan, B. H. *The Trade and Industry of Australasia.* 9¾×6¼. Pp. 250. 6*s.* net. (Eyre & Spottiswoode.)

Morris, Sir Malcolm. *Diseases of the Skin.* 7½×4¾. Pp. 702. 10*s.* 6*d.* (Cassell.)

Osler, W., and McCrae, T., eds. *A System of Medicine.* Vol. 5: Diseases of the Alimentary Tract. 9¾×6½. Pp. 904. 30*s.* net. (Frowde.)

Park, W. H., and Williams, A. W. *Pathogenic Micro-organisms.* 3rd edit. 8vo. 18*s.* net. (H. Kimpton.)

Plimmer, R. H. A. *Chemical Constitution of the Proteins.* Part 1, 3*s.* net. Part 2, 2*s.* 6*d.* net. Ryl. 8vo. (Longmans.)

Preen, Harvey. *Falling Sales yet Increased Profits.* Pp. 28. 6*d.* (Simpkin, Marshall & Co., Ltd., London.) [Deals with accountancy, especially daily and periodical costings. The chemical and drug trades are not touched.]

Proprietary Articles Trade Association Year-book for 1909. 8½×5¼. Pp. 196. 184 and 185 Temple Chambers, Temple Avenue, London, E.C. [Contains particulars of the P.A.T.A. organisation, list of firms who control protected articles, complete price-list of articles with fixed selling values, and list of members of the organisation. It is a useful year-book to all retailers.]

Raffety, C. W. *An Introduction to the Science of Radio-activity.* 7⅞×5¼. Pp. 208. 4*s.* 6*d.* net. (Longmans, Green & Co.)

Richards, E. H. *Laboratory Notes on Industrial Water-analysis.* 8vo. 2*s.* 6*d.* net. (Chapman & H.)

Ruddiman, E. A. *Incompatibles in Prescriptions.* Third edition. 9 × 5¾. Pp. 312. 8*s.* 6*d.* net. (Chapman & Hall, London.) [The general arrangement of the work is unchanged, about fifty new prescriptions being introduced. Part I. deals with drugs in alphabetical order, the substances incompatible with each drug being enumerated under the sub-head. Part II. is a list of 400 prescriptions, with criticisms on them. A table showing the effect of rubbing two solids together, solubility tables, and an index occupy the remaining space.]

Senter, G. *Outlines of Physical Chemistry.* 7⅜×4¾. Pp. 369. 3*s.* 6*d.* (Methuen.)

Sluss, J. W. *Emergency Surgery.* Cr. 8vo. 15*s.* net. (Rebman.)

Stewart, A. W. *Recent Advances in Organic Chemistry.* 9×5¾. Pp. 312. 7*s.* 6*d.* net. (Longmans.)

Stoddart, W. H. B. *Mind and its Disorders: A Text-book for Students and Practitioners.* 8¾ × 5½. Pp. 504. 12*s.* 6*d.* net. (H. K. Lewis.)

Williams, H. U., and Bolton, B.M. *A Manual of Bacteriology.* 5th edit. 8vo. 9*s.* net. (Rebman.)

Wilson's Equivalents of English Pounds and Kilograms. Pp. 43. 2*s.* 6*d.* net. (Effingham Wilson, 54 Threadneedle Street, London, E.C.) [The first portion deals with the conversions of English pounds to kilograms, commencing at 1 lb. to 13 cwt. 3 qrs. (1,540 lb.), by pounds, then to 1 ton by tens of pounds, and, finally, from 11 tons to 100 tons. The second table deals with conversion of kilograms as to pounds, going from 1 kilogram to 500 by kilos., from 501 to 1,000 by tens of kilos., and up to 100,000 kilos. The tables are based upon 1016.047536 kilograms to the ton.]

Young, T. E. *A Plain Guide to Investment and Finance.* 7½ × 5. Pp. 308. 5*s.* (Macdonald & Evans). [A guide intended for the ordinary investor, as distinguished from the speculator. Part 1 deals with how, when, and what to select as investments, and Part 2 is an exposition of finance, including chapters on trade, commerce, and industry, markets generally, and the money market in particular. As a whole the book is a comprehensive and practical treatise in an elementary form.]

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MANAGER; qualified; 37; energetic; highest West-end references; not afraid of work; abstainer. 182/80, Office of this Paper.

ADVERTISER; 26; disengaged; unqualified; all-round training; well recommended; London experience. "Energy," 108 Lower Richmond Road, Putney.

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ASSISTANT; 24; unqualified; 9 years' experience; Photography and Dispensing. Burn, Kirkgate, Newark.

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JUNIOR; 21; 4½ years' experience; disengaged. Johnson, Rescue Villa, Stanway, Colchester.

MANCHESTER District.—Part-time required by Minor Student. 26 Villiers Street, Ashton-under-Lyne.

LOCUM, Dispenser, or Bookkeeper; elderly; qualified; disengaged. 188 Croydon Road, Beckenham.

UNQUALIFIED; 29; Store experience; energetic, steady, reliable. Apply, "London," 80 Downham Road, N.

PART-TIME; N.W.; any time arranged; experienced; 26. "Chemist," 158 Church Road, Willesden.

ASSISTANT, unqualified, requires situation; outdoors. H. Walker, 4 Tower Road, St. Leonards-on-Sea.

LONDON.—Experienced; part evenings free for classes; 22; disengaged; abstainer. Mills, "Ashton House," Bath.

JUNIOR; 20; just finished 3 years' apprenticeship in good Counter, Dispensing business. "Gooch," Holt, Norfolk.

UNQUALIFIED; disengaged; good Dispenser, &c.; reliable "E. A. L.," 37 Charteris Road, Tollington Park, London.

MANAGER; qualified; married; permanency; 15 years in last situation. North, 14 Cook's Road, Gt. Crosby, Liverpool.

UNQUALIFIED; tall; 34; good all-round man; Photography. State salary (outdoors), Howes, 53 Glisson Road, Cambridge.

QUALIFIED (31), 2 years' experience Dentistry, requires situation; Chemist, Dentist. Morgan, Albert House, Carmarthen.

RELIABLE Assistant; thoroughly experienced; disengaged; references. Fawcett, "Blencogo," Dinarth Road, Colwyn Bay.

DISENGAGED; smart, reliable, competent, experienced, obliging, active Assistant; outdoors. "Rhei," 4 Cuthill Road, Camberwell.

ASSISTANT; good all-round experience; tall; married; permanency; 6 years last situation. "S.," 42 High East Street, Dorchester.

JUNIOR; 22; tall; good Store experience; competent; Photography; London; outdoors. Apply, "S. E." (176/13), Office of this Paper.

JUNIOR; berth in good-class Dispensing business required; evenings free for lectures; Liverpool preferred. Whiteside, St. George's Quay, Lancaster.

WHOLESALE.

M.P.S. (26) wishes to Travel for good house. "Energetic" (175/18), Office of this Paper.

SITUATION wanted; over 10 years' first-class Retail and Wholesale experience; age 30. 178/26, Office of this Paper.

GENTLEMAN, connection, wants a good Commission; Wholesale and large Stores preferred. 176/23, Office of this Paper.

REPRESENTATIVE; 4½ years' experience, town and country; excellent connection and references; fluent French; good houses only need apply. 158/35, Office of this Paper.

ADVERTISER, good business experience, capable Accountant, requires engagement; Correspondence, Books, or general work; long references; salary moderate. Reply, "N. M." (118/20), Office of this Paper.

A PACKED Goods firm wishes to divide the services of their Representative with another house, sharing expenses, &c. 182/2, Office of this Paper.

TRAVELLER seeks re-engagement; 15 years' experience in calling upon the trade and Medical profession; first-class connection. 182/1, Office of this Paper.

REPRESENTATIVE, old-established connection South Coast, West England, and South Wales, seeks engagement; first-class Drugs or Sundries. "Antipyrin" (181/19), Office of this Paper.

SITUATIONS WANTED (*continued*).

GENTLEMAN, Midland connection, seeks re-engagement; good address; energetic; Drugs, Sundries. Terms, "Chemist" (180/29), Office of this Paper.

ANALYTICAL Laboratory.—Youth (aged 16½) desires post; 2 years' experience in Chemical Laboratory; excellent references. Burton, 18a Culmore Road, Peckham, S.E.

ADVERTISER desires situation with Manufacturing Chemist; qualified; 29; thorough knowledge of Pharmacy; 7 years' West-end Dispensing experience. Full particulars and references, 174/40, Office of this Paper.

ADVERTISER requires appointment as Assistant Chemist; capable analyst; 3 years in Assay Laboratory of well-known City firm; Retail experience; age 20; excellent references. 173/5, Office of this Paper.

ADVERTISER desires management of first-class Proprietary Article or Preparation (Medical or otherwise), or similar responsible position; excellent credentials. "J. B." (179/15), Office of this Paper.

AS capable Warehouse Assistant, attend to and put up Stock, assist at Dispensing Counter, be generally useful; 20 years' all-round knowledge of the trade; good reference. "H.," 2 Mill Road, Lowestoft.

GERMAN Druggist, speaking English, good correspondent and bookkeeper, wants situation. "H. W." (181/3), Office of this Paper.

GENTLEMAN (young) seeks post with Wholesale firm with view to Travelling; Wholesale and Retail experience. 180/27, Office of this Paper.

ADVERTISER (25) seeks position of trust; London preferred; 9 years' experience at Wholesale and Retail Counters; accustomed to control, Manufacture of Galenicals, etc.; disengaged shortly. 176/22, Office of this Paper.

TRAVELLER (34), thoroughly experienced Drug and Allied Trades, good connection trade and Medical, knowledge of Instruments, etc., would Represent first-class house on commission and expenses. 179/5, Office of this Paper.

AGENCIES.—A thoroughly experienced and capable German (fluent English) desires position as Agent in Germany for English Wholesale houses of Druggists' Sundriesmen and Surgical-Instrument Makers. 180/31, Office of this Paper.

ADVERTISER, holding commission for leading London house, is open to take up another good Specialty; real live connection amongst Chemists, Drug Stores, Lancashire, Yorkshire, Midlands, Durham, Northumberland, etc. 175/1, Office of this Paper.

MISCELLANEOUS.

McADAM & TUCKNISS, Sharedealers, 30 Tranquil Vale, Blackheath, S.E. Telephone 81 Lee Green.

Shares for Sale (free of commission, subject).—20 Apollinaris Ordinary, 81*s.* 6*d.*; 100 Allen & Hanburys 6 per cent. "A" Prefs., 24*s.* 9*d.*; 526 Camwal Ordinary 1*s.* 8*d.*, 60 Prefs. 8*s.* 6*d.*; 39 Boots Southern "B" 6 per cent. Prefs. 23*s.* 3*d.*, 100 "C" 6 per cent. Prefs. 22*s.* 10½*d.*, 75 "A" 6 per cent. Prefs. 24*s.* 4½*d.*; 100 Ilford Ordinary, 8*s.* 3*d.*; 200 A. J. White Ordinary, 3*s.* 1½*d.*; 300 Idris "A" Ordinary, 8*s.*, 250 "A" 6 per cent. Prefs. 10*s.* 6*d.*

Wanted (subject).—50 Evans Lescher Prefs., £5 1*s.*; 5 Camwal Debentures, £33 each x.d.

List of shares for sale and wanted sent free on application. Bankers, London and County. Established 1898.

VERY FINE SET OF MAHOGANY SHOPFITTINGS.—As good as new and ready for immediate despatch: 16-ft. drug-fitting, mirror centre, pilasters with carved trusses and span rails, poison cupboard, etc.; 17-ft. mahogany serving-counter, glass cases in front and drawers behind; 6-ft. bent plate-glass counter-case; perfume case and desk; tower case, 3 ft. high by 2 ft. square; 10-ft. mahogany wallcase; handsome screen, with centre mirror down to ground and cases either side, with mirror backs and glass shelves; 75 guineas complete. PHILIP JOSEPHS & SONS, LTD., 93 Old Street, Goswell Road, London, E.C.

THIS IS YOUR CHANCE.—We have just cleared the complete set of Fittings of a Pharmacy 18 ft. by 14 ft.; all are splendidly made and in first-class condition. Write for particulars, or call and inspect; going cheap. RUDDUCK & CO., 262 OLD STREET, E.C.

DENTAL MECHANIC.—T. Barton, 194 Mansfield Road, Nottingham. Telephone 3898. Best workmanship in Vulcanite, Gold. D.A., etc.; Crowns, Bridges, and Inlays a specialty; prompt despatch my leading feature; repairs per return; every assistance and advice given to clients.

Dose Tables for Students of Pharmacy.

A TWENTY-FOUR page booklet showing the adult doses in ordinary cases of the principal medicinal agents, with metric equivalents for dispensing and a complete table of atomic weights, comprising the B.P. figures and the International Committee's latest pronouncements (O=16 and H=1). The booklet measures 4 in. by 2½ in., and can be carried in the vest pocket. To be obtained from The Chemist and Druggist (Book Department), 42 Cannon Street, London, E.C., for THREE PENNY STAMPS PER COPY, POST FREE.

POISONS SCHEDULE, *according to the New Act*, reprinted from The Chemist and Druggist, with a supplementary list of admixtures, preparations, and other articles brought within the Schedule. On a card (Schedule in front, list at the back) to hang up; price 6*d.*, post free, from the Office of the *C. & D.*, 42 Cannon Street, London, E.C.

SEEDS! SEEDS!! SEEDS!!! Important to all Wholesale Buyers of New and Reliable Seeds. Brown's Wholesale List of Vegetable, Flower, and Farm Seeds for 1909 is now ready, post free. Penny Pictorial Packets, our Speciality, 3*s.* 6*d.* per 100; 31*s.* per 1,000. Send for List at once, gratis, and order your seeds fresh from the actual growers. E. P. Brown & Sons, Seed Growers, Coggeshall, Essex.

TO Apprentices, Juniors, etc.—If you wish to pass the Preliminary quickly and with little trouble, write to Mr. Charles Harker, who will coach you by post; thorough systematic teaching; numerous successes in 3 and 6 months; special attention given to those of neglected education; 85 per cent. recent successes; terms very moderate. Charles Harker, 239 Chapter Road, Cricklewood, London, N.W.

APPOINTMENTS VACANT.—The Directors of the IMPERIAL ACCIDENT INSURANCE CO., LTD., established 1878, invite applications for Agencies in unrepresented districts. Departments: Personal Accident, Employers' Liability for Accidents to Servants and Workpeople, Carriage, Motor and Driving Accidents, Burglary and Plate Glass, Horse and Cattle Insurance; liberal terms. Address, Agency Manager, 17 Pall Mall East, London, S.W.

POISONS AND PHARMACY ACT, 1908.

GADD'S CHART OF NEW CONDITIONS.

Third Edition, 6*d.* post free.

Evans, Gadd & Co., Ltd., Bristol and Exeter.

PATENT Medicines.—Manufacturing Chemist, having suitable works and efficient staff, desires to make and pack Patent and Proprietary Goods; strict secrecy guaranteed; can undertake entire management and advertising if desired; establishment expenses saved and profits increased; summer Specialities preferred. Address, 172/2, Office of this Paper.

PHOTOGRAPHIC CHEMISTS desiring a record season are invited to write us. We will then explain our up-to-date scheme for doubling the sales of their specialities—P.O.P. Postcards, Plates, and Sundries—without incurring any risk of loss, advertising and other expenses. This idea has been tested and proved uniformly successful. One chemist in each town only treated with. Congdon & Co., 77 Lamb's Conduit Street, W.C.

TO Minor Students, Juniors, or Apprentices.—Postal lectures on Chemistry, Pharmacy, Materia Medica, Botany, Physics, Prescription-reading, and Latin, etc.; all the various processes minutely described; individual attention; an ideal training for private or country students; special facilities afforded to gentlemen engaged in business; very moderate terms. Harker and Saunders, 239 Chapter Road, Cricklewood, London, N.W.

McQUEEN'S System of Accounts for Chemists; sixth edition; knowledge of bookkeeping unnecessary; works out gross and net profits; balance sheet, and income tax statement with guaranteed certainty; absolutely the last word in simple, comprehensive, and effective bookkeeping. Particulars and testimonials free, McQueen & Co., Moat Road, E., Leicester.

CHEMIST 16-ft. glass-fronted counter, mahogany top, 3 ft. wide, £13, bargain; mahogany bent plate-glass counter-cases, 4 ft., 5 ft., 6 ft. dispensing-screens, wall-cases, drug-fittings; cheap to clear; cheapest house in the trade for shop-fronts, alterations, window-enclosures; estimates free. H. Mills, Up-to-date Chemists' Shop Fitter, Shop-front Builder, Steam Works, 163 and 165 Old Street, London, E.C.

IMPORTANT.—New Dentifrice-container, superseding *all* at present in market, for Disposal; American, French, Belgique, and English Patents; cost of manufacture small; splendid opportunity for large Toilet house or private syndicate pushing Proprietary-powder. Principals only to "Alpha" (177/32), Office of this Paper.

THOMAS WEST DECEASED.—Pursuant to the Statute 22nd and 23rd Victoria cap. 35 creditors and others having any claim against the estate of Thomas West late of 1187 Chester Road Stretford Chemist Druggist and Perfumer deceased, and who traded as an Ironmonger under the style of "West's Ironmongery Stores" and who died on the 16th day of January last and whose Will was proved in the Manchester District Probate Registry on the 5th day of February instant, by Frank Whiteley and William Anderson Smith two of the Executors thereof are to send particulars of such claim to the Executors at the offices of the undersigned on or before the 31st day of March next after which date the Executors will proceed to distribute the Testator's assets among the persons entitled thereto.

Dated this 8th day of February 1909.

TALLENT-BATEMAN, THWAITES & MENZIES,
Solicitors to the Executors.

40 Brazenose Street, Manchester.

THE MOST POPULAR DANCE
OF THE SEASON FOR CHEMISTS IS THE
JUNIOR PHARMACY BALL.
It will take place this year at the
Portman Rooms, on Wednesday, March 10.
Mortlake Mann's Orchestra. Tickets (including Supper and Light Refreshments), 7*s.* 6*d.* each, from the Hon. Secretary, Mr. J. E. SOUTHON, 8 Leadenhall Street, London, E.C., or any of the Stewards.

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JONES & ADNITT, The Chemists' Printers,
HEREFORD. Telephone: Nat. 189.

IN THE HIGH COURT OF JUSTICE, CHANCERY DIVISION.
MR. JUSTICE JOYCE. 1909. C. No. 012.
IN THE MATTER OF CAMWAL, LIMITED, and
IN THE MATTER OF THE COMPANIES
(Memorandum of Association) ACT 1890.

NOTICE IS HEREBY GIVEN that a Petition was presented to His Majesty's High Court of Justice on the 28th January, 1909, by the above-named Company to confirm a special resolution of the Company passed at an Extraordinary General Meeting of the said Company held on the 1st December, 1908, and subsequently confirmed at an Extraordinary Meeting of the said Company held on the 21st December, 1908, to the effect following, namely:—

"That the provisions of the Memorandum of Association of the Company with regard to the Company's objects be altered by striking out the restriction imposed on the objects of the Company by the following words occurring in Clause 3 (c) of such Memorandum of Association, namely:—

"but so that the waters commonly known as "Camwal Waters" shall be sold or supplied in syphons to Chemists or to the Authorities of any Hospital, Club, Hotel, or other Institution, trade with which is not likely in the opinion of the Directors of the Company to prejudicially affect the retail trade in Camwal Waters in syphons as now ordinarily carried on by Chemists"

to the intent that such Clause as so altered shall henceforth read as follows, namely:—

"To manufacture, manipulate, render merchantable, and purchase Aerated and Mineral Waters of all kinds, whether artificial or natural, and all materials and ingredients necessary or convenient for the manufacture, manipulation, rendering merchantable, and dealing in such waters, and to sell, deal in, and supply such waters, materials, and ingredients."

AND NOTICE is further given that the said Petition is directed to be heard before his Lordship Mr. Justice Joyce at the Royal Courts of Justice, Strand, London, on Tuesday, the 23rd day of February, 1909.

Any person interested in the said Company, whether as a Debenture-holder, Creditor, Shareholder, or otherwise, desiring to oppose the making of an Order for the confirmation of the said resolution under the above Act, should appear at the time of hearing, either by himself or his Counsel for the purpose, and a copy of the said Petition will be furnished to any such person requiring the same by the under-mentioned Solicitors on payment of the regulated charge for the same.

Dated this 5th day of February, 1909.

H. TEMPLER PRIOR, Master of the Supreme Court.
G. & G. KEITH, 18 Southampton Street, Holborn, London, W.C.,
Solicitors for the Company.

IT IS QUITE POSSIBLE
for any Chemist to increase his business, number of customers, and sales of his own Specialities by using bright, up-to-date methods. If you wish to show the public that you are absolutely up to date send p.c. for copy of Booklet "HOW TO INCREASE YOUR BUSINESS," which explains all about my Business-pulling System.
J. R. B. ALLISON, Chemist & Business Specialist, Retford.

STILL ANOTHER KENTISH TESTIMONIAL, dated 9-2-09, viz.:
"I am glad to say that I have had another good month in January—£12 better than last year."
Now, Chemists all, if you wish to share in this kind of thing and be able to write me letters of this character some time in the future—that is, if you want to increase your business—write for my free booklet.
If you have got any pluck and will spend about £14 a year in "backing" that pluck and paying my modest fee, I will put £1 a week on to your net profit almost as a definite certainty. Write to-night.
BERNARD SLACK, Princes Chambers, WOLVERHAMPTON.

Exchange Column—Bargains.

TERMS.

One halfpenny per word with name and address. One penny per word if we register the address and attach a number.

No Advertisement inserted for less than 6d.

FOR DISPOSAL.

APPARATUS.

EMULSION machine for hand or power, makes 4 gals. in 30 minutes; £8 10*s.*; fitted with gas for cold-cream, etc. BOULTON, Warton Road, Stratford, E.

DENTAL.

DENTAL sign-tablet, opal letters, brass plates, all relating to teeth; large show case, with about 20 specimen cases; also 18 pairs of forceps; to be sold cheap. MACDONALD, 176 Upper Richmond Road, Putney, S.W.

FORMULÆ.

FORMULA for sale.—Boot-polishes, furniture-cream. FRANCE, 42 Vartry Road, London.

EMBROCATION; 10*d.* per gal.; thick, creamy, and unseparable; send 2*s.* 6*d.* for formula. EVERITT, 131 Forest Road, Loughton, Essex.

SHAMPOO-POWDERS; why not make your own? nothing so easy; something much better and unique; cost under 3*d.* doz.; formula and how to get free envelopes, P.O. 1*s.* 6*d.* LLOYD, 18 King Street, Margate. Money returned "If" dissatisfied.

BOOKS AND PERIODICALS.

MARTINDALE'S "Extra Pharmacopœia" (12th edition); perfect; what offer? Casley, 3 First Avenue, Acton Park, London, W.

"OBSTETRICS" (Tarnier), 15*s.*; "Clinical Diagnosis" (Jaksch), 15*s.*; "Dentistry" (Harris), 25*s.*; "Modern Physician" (5 vols.), 25*s.*; all perfect condition. 178/38, Office of this Paper.

OPTICAL AND PHOTOGRAPHIC.

OPTICAL trial case, with stock of lenses and cases: quite new. 175/24, Office of this Paper.

GOOD up-to-date microscope (Swift), coarse and fine adjustment, 1 in., ¼ in., ⅙ in., and 1/12 in. oil-immersion objectives, quadruple brass nose-piece, three eye-pieces; cost £15; almost new; what offers, whole or part? Reeks, Chemist, Fordinghridge.

PROPRIETARY ARTICLES.

15 DOZ. Ozonia, clean, 4*s.* doz. carriage paid; will exchange for ½-plate anastigmat lens. "Veieda" (169/12), Office of this Paper.

CHEMIST'S emulsion, 9 10½*d.*, 4 1*s.* 6*d.*, good condition, clean; 13 bottles St. Raphael tannin tonic wine. Raine, Chemist, Barnard Castle.

SHARES.

SHARES for Sale. See p. 70.

MISCELLANEOUS.

WHAT offers 5 vols. "Modern Physician" (Wilson's), not used; also ½ lb. gum opii? McIntyre, Ellesmere.

OFFERS wanted for 8 gross 2*d.* toilet soaps, assorted; overstocked; sample 2*d.* 178/40, Office of this Paper.

GRAMOPHONE with flower horn, 35 disc records (reckoning double-sided, 50); as new; cost £9 15*s.* 6*d.*; accept £6. Nicholls, 5 Victoria Terrace, Newquay, Cornwall.

BEST offer, carriage paid, Bruce Green's complete optical set, cost £6; set 7 dental forceps, steel (Maw); 1-grain pill-machine (Maw), B.P. '98. "Chemist," 256 King Street, Hammersmith.

WANTED.

OPTICAL trial case. Whitehead, Chemist, West Hartlepool.

OPTICIAN'S test-case; Gardner's mixer (small). 177/31, Office of this Paper.

"PHARMACEUTICAL Journal" Formulas. Lowest price, Westdale, Arnold, Notts.

FOLDING pocket-camera, with good lens. Farrer, Bel and Dragon Hotel, Cookham.

PATENTS.—Clean, quick sellers; good prices given. King, 6 St Paul's Road, Blackpool.

PLATINUM, any form; also iridium; banker's reference. Rowsell, 11 Crebor Street, Dulwich.

REGISTER of Chemists in exchange for *C. & D. Diary*, 1909. Lockyer, Chemist, Deptford.

SHOP rounds, dispensing scales, screen, or other fittings. Cowe, 4 Electric Parade, Southend.

TINCTURE-PRESS and suppository-mould. Particulars, "M.," Stonelaw Pharmacy, Rutherglen.

MINOR, Major, Chemists' books.—Send prepaid for valuation; cash offers per return. Gower, Bookseller, Waterloo, Liverpool.

GARDNER'S sifter and mixer, 60 lbs. capacity, power size, with pulleys; also tincture press wanted. Collins, Crown Works, Bury.

GLAZEBROOK'S "Light," Laurance's "Eye," Hartridge's "Refraction," Taylor and Baxter's "Sight-Testing." Frank, 156 Moorland Road, Burslem.

OPTICAL trial case, charts outside; sign and case must all be in good condition; best make trial case only. Send full particulars, "Optician" (180/35), Office of this Paper.

ADDRESSES WANTED.

HUDSON, WILLIAM, chemist; was at Eastry, Dover, Kent, in 1874; son inquires. 176/40, Office of this Paper.

Scientific Progress.

Temperatures under this heading are on the Centigrade scale.

Formation of Salicylic Aldehyde from Salicylic Acid Hugo Weil ("Ber.," xli., No. 17) states that sodium amalgam readily reduces sodium salicylate in aqueous solution at ordinary temperature in the presence of boric acid, yielding salicylic acid. The addition of an aromatic base (*e.g.*, *p*-toluidine) increases the yield (up to 60 per cent.) in forming a difficultly soluble Schiff's base. The pasty residue is probably a condensation-product of salicylic alcohol.

Rapid Preparation of Calcium Phosphide.—A quick method of making calcium phosphide for the purpose of obtaining hydrogen phosphide was communicated by C. Matignon and R. Trannoy to the Paris Academy of Sciences on January 18. Dry calcium phosphate is heated with aluminium powder, the reduction being started at a dull red heat. The product, a mixture of calcium phosphide and alumina, on treatment with water gives off non-inflammable phosphoretted hydrogen containing only hydrogen (up to 3 per cent.) as an impurity.

Iodine-derivatives of Strychnine and Brucine.—J. Buraczewski and T. Kosniewski ("J. S. C. I.," 28, p. 38) obtain almost quantitative yields of di-iodo-strychnine and di-iodo-brucine by the action of iodine dissolved in carbon bisulphide on a hot alcoholic solution (made with 96-per-cent. alcohol) of the corresponding alkaloids. The strychnine compound is scarlet and melts at 196-197° C., while the brucine preparation forms silky cinnamon-coloured crystals which melt at 222.5° C. Both substances are almost insoluble in water and are decomposed by alcohol alkali.

Arsenic in Hops.—Dr. W. W. Stockberger, of the U.S.A Bureau of Plant Industry, has recently completed an investigation on the presence of arsenic in hops. He finds, from examination of specimens grown in the world's hop-centres, that slight traces of arsenic occur occasionally, irrespective of geographical origin; if there is arsenic in the soil it is taken up by the plant, but not to a greater extent than 0.01 grain per lb. of dried hops. Thus hop-plants were watered with solutions of arsenious and arsenic acids in quantities ranging from 1/10 to 24 oz. of the former and 2 to 20 oz. of the latter per hill of hops. The dried strobiles resulting contained from 0.5 to 3 parts of arsenic per million, but not in proportion to the arsenic administered. The use of impure sulphur in the curing-process is a source of arsenical contamination, the proportion of arsenic found being greater than 0.01 grain per lb.

Coniferous Waxes.—A new series of crystalline waxes for which the authors, J. Bourgault and L. Bourdier ("Compt. Rend.," 1908, 147, 1311-1314) propose the name *etholides* have been isolated from several plants belonging to the Coniferæ (*Juniperus*, *Pinus*, and *Thuja*. The tedious fractionation of the waxes was effected by cooling the solution in hot alcohol; the wax of *Juniperus Sabina* (m.p. 73°-78°) being thus separated into four fractions melting at 68°, 72°, 76°, and 82° C., which, however, may not be definite compounds. The fractions are of the same type and the waxes appear to be esters of hydroxy-acids linked together in chains, without the intervention of purely alcoholic substances (such as glycerol), which are absent. The alcoholic hydroxyl group does the joining-up by esterifying the carboxyl group of the same or a similar acid, forming chains in the same manner as in Fischer's polypeptides. The authors isolated two of these acids—viz., hydroxy-palmitic (m.p. 95° C.) and a hydroxy-lauric acid (m.p. 84° C.), which they term juniperic and sabinic acids respectively.

Titration of Phosphoric Acid and Phosphates.—J. M. Wilkie states ("J.S.C.I.," January 30, p. 68) that for phosphoric acid the equivalent of 0.5 c.c. is transferred to a stoppered cylinder, 26 c.c. of decinormal silver-nitrate solution is then added (no precipitate if chlorides are absent), and then 25 c.c. of N/5 sodium acetate, and water added to produce 100 c.c. After shaking vigorously the acetic acid produced is titrated with decinormal barium-hydroxide solution to phenolphthalein, the end-reaction being sharp. In estimating phosphates, a definite quantity of decinormal sulphuric acid is added (15 c.c. to 0.6 gram) and the solution boiled to expel carbon dioxide before adding the decinormal silver-nitrate solution (50 c.c.), N/5 sodium acetate (30 c.c.), and water (to 100 c.c.). After titration an allowance is made for the sulphuric acid. If carbonates are present in the phosphates, after titrating with alkali, 1 c.c. of a normal sulphuric acid is added, the volume adjusted to 150 c.c., and well mixed. After an hour 100 c.c. is filtered off, and the residual silver determined by Volkard's process. The amount of silver nitrate added is within limits immaterial, but excess precipitates silver hydroxide, which obscures the end-point. Similarly the silver solution need not be accurately standardised unless carbonates are to be determined.

Printed for the Proprietors by Spottiswoode & Co. Ltd., New-street Square; and Published by the Proprietors at 42 Cannon Street, in the City of London—*February* 13, 1909.

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The Bottle without a Valve

Savory & Moore's "Valveless" Feeder has been designed to overcome the disadvantages of the ordinary feeding bottle fitted with a valve. It is very simple in construction, highly satisfactory in use, and supplies the need which has long existed for a feeding bottle of this nature. Savory & Moore's "Valveless" Feeder yields

A GOOD PROFIT TO THE RETAILER,

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Retail Price ... ... 1/- each.
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To Stock PLASMON

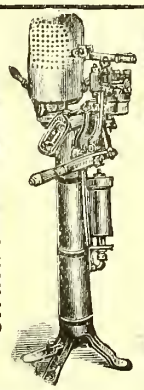
IS GOOD BUSINESS.

PLASMON { POWDER. COCOA. CHOCOLATE.

CUSTARD and BLANC MANGE POWDER.
NEW BISCUITS
In many Varieties.

If you have not already Stocked, DO IT NOW, BECAUSE THEY SELL.

TRADE LIST. **Plasmon House, Farringdon St., E.C.**



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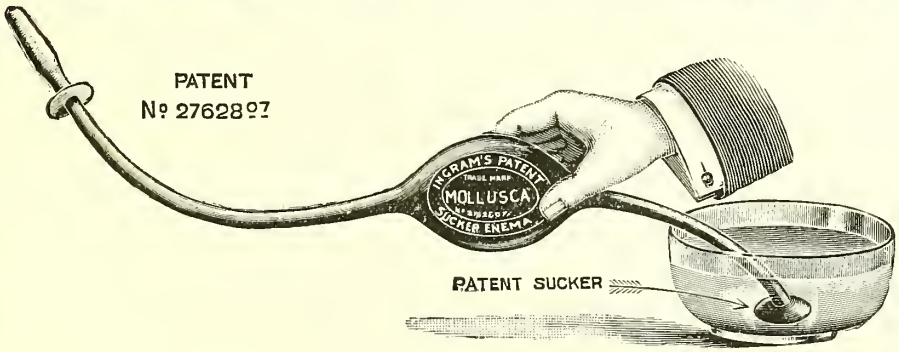

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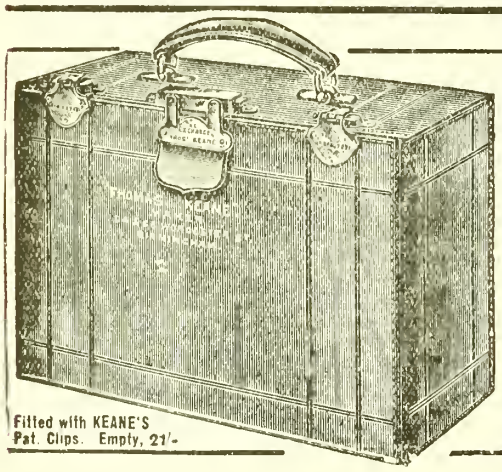

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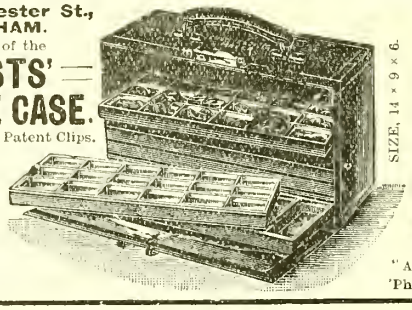

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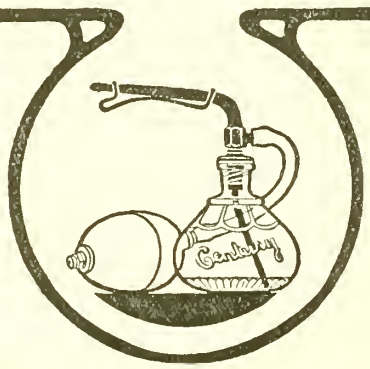

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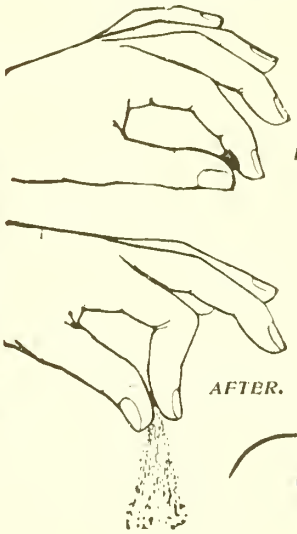

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POISONS SCHEDULE ON A CARD.

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Summary.

The subjoined paragraphs give the gist of the more important matters in this issue, with the object of showing at a glance what has happened during the week. See also "Contents" in the first column.

MAKE A POINT of looking in the Coloured Supplement. Frequently we place literary matter in it, and when binding the coloured pages visibly divide the volume into weeks.

MORE INTERESTING POINTS arising from the Poisons and Pharmacy Act are dealt with on p. 277.

EXPORT AND IMPORT TRADE last month was worse than in January 1908, to the extent of eight million pounds (p. 263).

THE Local Government Report for 1907-8 has been issued this week. The remarks on adulteration are quoted on p. 248.

THE "K.M.S." TRADE-MARK is the subject of litigation (Boake Roberts *v.* Wayland) before Mr. Justice Nevillo (p. 253).

DR. DANYSZ has issued a plea in regard to the benefits of rat-virus which deserves attention. We give the gist of it on p. 265.

MR. ANDREW PEARS, Vice-Chairman of A. & F. Pears, Ltd., and a great-grandson of the introducer of Pears' soap, died on Wednesday (p. 256).

PHARMACISTS may have their "returns" seriously affected by proposals in respect to the municipalisation of provident dispensaries. See the article on p. 264.

"OIL OF COPAIBA" which consists of oil of African copaiba and gurjun oil is on the market at present. Mr. Parry communicates a note on its characteristics (p. 270).

THE METHODS of detecting tin in canned foods have been investigated on behalf of the Local Government Board, and the report is commented upon in this issue (p. 263).

THE HOP-SUBSTITUTES question is not to be allowed to rest in the coming session of Parliament. Some members of the Opposition are determined that something shall be done. See the note on p. 265.

THE PHARMACEUTICAL COUNCIL IN IRELAND has discussed the apprenticeship question with the companies' representatives, but further information is necessary before anything can be done in the matter (p. 269).

THE STAMPING OF GLASS MEASURES is not supervised with uniformity, or so it appears from the arguments submitted by a deputation from the North of England which was received by the President of the Board of Trade this week (p. 248).

"XRAYSER" discourses upon cascara sagrada as an index of the slight changes which occur in medicine, on radium as a characteristic of the new century, on the Glyn-Jones maxim, the murder of Paracelsus, and the chemists' registers (p. 261).

THE FRENCH TARIFF REVISION is creating much interest in this country, owing to the fact that we have important trade relations with the Republic. We accordingly give further particulars about the matter in an editorial note beginning on p. 262.

THE EVENING MEETING of the Pharmaceutical Society in London this week was chiefly characterised by a communication on the estimation of glycerin by Messrs. Naylor and Chappel. Other communications dealt with an attempt to identify a false wild-cherry bark (p. 268).

WILD-CHERRY BARK (*Prunus serotina*, Ehrhart) has been chemically investigated in the Wellcome Chemical Research Laboratories, and several definite constituents have been isolated, including the cyanogenetic compound. An abstract of the communication on the subject to the Chemical Society is given on p. 267.

A CHARACTERISTIC of the pharmacy legislation of 1868 was that it created much dissatisfaction amongst persons in the retail trade, who felt that they did not get the recognition they deserved. This is being repeated as regards the 1908 Act. We print a number of letters on the subject, but have not been able to find room for all that are in type (p. 275).

BUSINESS in drugs and chemicals has not so far this year come up to expectations, and the week under review has been devoid of features. Cod-liver oil and opium are worth watching in view of an advance. Messina essences continue easy. Copper and ammonia sulphates are easier. Camphor is flat and morphine is very firm. Quinine is in more demand. A large auction of new and second-hand drugs is reported on p. 270.

B

English News.

Local Newspapers containing marked items of news interesting to the Trade are always welcomed by the Editor.

Brevities.

Mr. H. Massingham, of the Drug-stores, 34c Green Street, Bethnal Green, London, E.C., is a candidate for the local Borough Council.

The sum of 91*l.* 18*s.* 8*d.* has been contributed to the funds of the Dartford Cottage Hospital by the employés of Messrs. Burroughs Wellcome & Co. at Dartford.

At the last meeting of the Lutterworth Guardians, Major Smith said he did not see why they should not ask the medical officers to give reports of cases in plain English without the use of technical terms, which they could not be expected to understand.

Mr. W. S. Howes Brampton, chemist and druggist, 13 Market Hill, Sudbury, has been elected a Vice-President of the local Traders' Association, which has a membership of ninety. Another chemist, Mr. J. H. Brown, 21 Market Hill, was appointed on the committee. It was resolved at the annual meeting that all shops in Sudbury should be closed at 2 P.M. on Wednesdays and at 8 P.M. on Fridays.

At Dartford, on February 5, Herbert Arthur Chads was remanded on a charge of obtaining, by false pretences, the sum of 2*s.* from Mr. W. E. Goff, pharmaceutical chemist, 34 High Street, Dartford. Accused obtained the money from an assistant by representing that it was due for an advertisement in the "Provincial Trades Directory." Mr. Goff stated that he knew nothing about the publication, and the affair was characterised by the police as a gigantic swindle.

Selfridges, Ltd., are to open their new store in Oxford Street on March 15. The drug-department of the store is to be in a fine position—facing Oxford Street. Besides dispensing and retail, the department will embrace toilet-requisites, perfumery, soaps, indiarubber goods, brushes, silverware, and everything else connected with personal hygiene and the toilet. A staff of twenty-five will be engaged under Mr. Heighington, the superintendent. A lady dispenser has been engaged as one of the dispensing staff.

At the Worthing County Court on February 7, Mr. Andrew Frazer brought an action against Councillor W. Aston, pharmaceutical chemist, 27 Montague Street, Worthing, claiming 10*l.* for services rendered as election clerk. The hearing of the case caused considerable merriment at the plaintiff's expense. Mr. Aston, in his evidence, said he did not think the plaintiff's services were worth more than 2*l.*, nor did he consider that Frazer had worked well at all. Judgment was given for the plaintiff in the sum of 5*l.*

The interment of Mr. Charles Bains Bell (President of the Hull Chemists' Association) took place at the General Cemetery, Spring Bank, Hull, on February 4, the Rev. T. Heany, of St. Stephen's, officiating. The Association's representatives were Messrs. Robson and A. Richardson (Vice-Presidents), Mr. W. Staning (Secretary), Mr. W. Kenny (Treasurer), and Messrs. Smith, Stoakes, Chapman, Oldham, Houlden, Brown, Wherton, and Saltmer (Messrs. Lofthouse & Saltmer). The Masonic and Conservative Associations were also represented.

At Bow Street Police Court, London, W.C., on February 8, Frank West and George Thomas were charged with being concerned in wilfully breaking a plate-glass window, value 10*l.*, on the premises of Messrs. J. Heppell & Co., 38 Haymarket, S.W. West entered the shop about 1 A.M. on Sunday, and asked the assistant for money, which was refused. He then left the premises and joined Thomas, who, after a conversation, went in and also requested aid, saying, "I don't want to cause any trouble." On being told to go away, he went outside and deliberately threw a stone through the window. The Bench discharged West and remanded Thomas, who pleaded guilty.

Sale of Food and Drugs Acts.

The Bristol analyst examined ten samples of drugs last quarter. All conformed with the required standards.

The Dartford Public Health Committee have arrived at the conclusion that the Council should continue to pay the sum of 10*s.* per sample analysed, and not require applicants to submit competitive prices in applying for the position of public analyst as by the Council's resolution of December 1 (*C. & D.*, 1908, II., p. 849).

Hammersmith Borough Council are asking other Metropolitan Councils for summaries of the fines inflicted under the Sale of Food and Drugs Acts. The Hammersmith Public Health Committee feel that the average penalty is too small to have a deterrent effect on the commission of such offences. The Wandsworth Council have written expressing agreement with that view.

The Bedford county analyst examined the following samples during the last quarter, all of which were returned as genuine: Five of pepper, three each of mustard and tartaric acid, two each of arrowroot, carbonate of soda, citric acid, cream of tartar, quinine-and-iron tonic, rhubarb, and malt vinegar, and one each of baking-powder, beeswax, boric acid, citrate of magnesia, cod-liver oil, compound liquorice powder, senna-leaves, and sublimed sulphur.

The Sheffield city analyst (Mr. G. E. Scott-Smith), in his quarterly report, states that two samples of pepper, two of ground ginger, ten of compound liquorice-powder, and one of camphorated oil all proved to be genuine. Of six samples of sweet nitre five were in accordance with pharmacopœial requirements, but the remaining sample was of inferior quality. One sample of vinegar consisted of a dilute solution of acetic acid (3.34 per cent.), together with a small proportion of extractive matter.

The Local Government Report for 1907-8 has been issued this week, and we hope to deal with it fully in our next issue. In the meantime we quote the Board's remarks on drugs:

> As compared with 1906, the samples of drugs examined showed an increase of 50 per cent. The greatest increase was in citric and tartaric acids and cream of tartar. A report by our assistant inspector of foods, Dr. MacFadden, as to lead and arsenic in tartaric acid, with notes as to the presence of these impurities in citric acid and cream of tartar, was issued by us during 1907. Medicines supplied to prescription have been examined in certain districts, notably in the city of London, with a view to controlling the accuracy of the dispensing practised. One sample of Epsom salts sent to the analyst for Lancashire was found to contain 58 per cent. of sulphate of zinc. Several people who had purchased small quantities of the salts became suddenly and dangerously ill. It was subsequently discovered by the chemist that a packet of sulphate of zinc had been accidentally sent to his shop in place of Epsom salts. All the people who took the "salts" eventually recovered. The practice of adulterating ground gentian root by powdered olive stones is not yet extinct, for the returns for 1907 show that nine samples contained that substance, while eleven others contained ground nut shells, bean meal, wood fibre, etc. In several of these cases legal proceedings were instituted, and in two cases fines were inflicted.

Stamping Glass-measures.

On Monday afternoon, February 9, at the offices of the Board of Trade, Mr. Winston Churchill, M.P., received a small deputation from South Shields, Gateshead, and Sunderland, in reference to the stamping of glass measures. With the President were Sir H. Llewellyn Smith (the Permanent Secretary of the Department), Mr. G. R. Askwith (Railway Department), Major MacMahon (Deputy Warden of the Standards), Mr. E. H. Marsh, C.M.G., and Mr. W. F. Marwood. Gateshead was represented by its Town Clerk (Mr. W. Swinburn), South Shields by Councillor Henry Hilton (Mayor) and Mr. J. Moore Hayton (Town Clerk), and Sunderland by Alderman J. G. Kirtley, Councillor H. C. Lindsley, and Mr. F. M. Bowey (Town Clerk). The interview was of an informal character and private, but we learn from local sources that it was pointed out to the President that the stamping fee ought not to be a charge upon the rates of the local authority, but should be a self-supporting transaction. It was further urged that the sum of 4*d.* is quite sufficient for the purpose, and that the great necessity is the institution of a cheap and uniform rate, and one which could be definitely settled once for all. It was claimed that there should be uniformity both in price as well as in service, and that if the rebate went to 4½*d.* it would entail a charge upon the rates, and if 4½*d.* were allowed there would be a distinct deficit. Another point put forward

was that the fee to be charged to the manufacturer should be as small as possible. It was also pointed out that in one city the stamping verification is not always carried out under as close a supervision as is desirable, and that in several respects the law is being evaded. It was also urged that nothing should be done which might be calculated in any way to advance the interests of the foreigner in respect of foreign-made glass in London. Mr. Churchill did not make any definite reply to the memorialists, but listened with the utmost attention to the arguments which had been addressed to him.

Bankruptcy Law Reform.

After the reply which was given by Mr. Winston Churchill, M.P., on Wednesday, February 10, to the deputation which waited upon him from the Association of Chambers of Commerce of the United Kingdom and the Association of Trade Protection Societies, there is felt to be but little, if any, chance of the question of Bankruptcy Law Reform being brought before the House of Commons during the ensuing Session. The President said it was the hope of his Department that the matter might be dealt with before he quitted the Board of Trade, but with the critical Session upon which the Government is about to embark, it is a little hazardous, to say the least, to speculate as to the legislative output—or, indeed, even the existence—of any Session save the present. Mr. Churchill paid a well-deserved compliment to the care and assiduity which the members of the Select Committee had displayed in the preparation of their report, which would be of the utmost assistance in any legislation that might be entered upon.

Northampton Institute.

The distribution of prizes and certificates to the students of the Northampton Institute, Clerkenwell, London, E.C., took place on February 5. The chair was taken by Mr. L. B. Sebastian, Chairman of the governing body. Dr. R. Mullineux Walmsley reported that the total enrolments of students in the session numbered 2,362, an increase of over 12 per cent. The Earl of Halsbury made a long speech before distributing the certificates, and afterwards opened a new lecture-room which has been constructed in the courtyard of the Institute. The Institute is particularly noted for its specialised technical classes, the subjects of applied electricity, industrial chemistry, clock-making, and optics being taught in excellently equipped laboratories. The number of awards granted in the optical section was as follows: Technical optics, thirty-nine certificates; visual optics, two prizes; optical-instrument work, two prizes; optical workshop, one prize; spectacle-lens work, one prize; and two prizes given by Mr. James Aitchison.

The International Congress of Applied Chemistry.

The arrangements for the meeting of this Congress in London this year are proceeding well, and there is promise of a splendid gathering of chemists from all parts of the world, including a number of notable pharmacists. The meeting will begin on May 27 and will continue up to the following Wednesday, thus embracing Whit-Monday, a circumstance which should enable many chemists throughout Great Britain and Ireland to come up to London for a few days at least while the Congress is on. The Pharmaceutical Section of the Congress is allied with two sections, one dealing with hygiene and the other with bromatology, which is the science of foodstuffs and allied products. Mr. N. H. Martin, F.R.S.E., is the President of the Pharmaceutical Chemistry Section, and he has the assistance of a representative committee, which met for the first time at the rooms of the Society of Chemical Industry on Monday of this week, when Mr. E. F. Harrison, the Hon. Secretary, submitted a preliminary list of papers which had been promised, both by British and foreign pharmacists. One of the characteristics of these papers is that they are to be of international interest, in so far as their authors are aiming to educe the opinions of their *confrères* from abroad on questions in regard to the valuation of chemicals and drugs common to all countries. Besides the work in the Pharmaceutical Chemistry Section, there will in other sections be attractions which will well repay any who come to London for the meeting, while the social and similar features will be of an inviting and probably historic nature. Membership of the Congress costs 1*l.*, which entitles a member to attend the various meetings and to receive the volume in which the proceedings will be recorded. We may recall the fact that his Majesty the King is Patron and the Prince of Wales Vice-Patron of the Congress, and it is probable that one of them will be present at the opening meeting to be held in the Albert Hall. The Hon. General Secretary of the Congress is Mr. William Macnab, F.I.C., F.C.S., 10 Cromwell Crescent, London, S.W., to whom communications in regard to membership should be addressed; while the Hon. Secretary of the Pharmaceutical Chemistry Section is Mr. E. F. Harrison, B.Sc., F.I.C., 55 Chancery Lane, London, W.C., who will be glad to hear from any pharmacists in this country who desire to bring any subject of international pharmaceutical interest before the Section.

Manchester Notes.

The roller-skating craze has resulted in good business in liniments and embrocation, a brisk demand being created by the frequent falls in the graceful pastime.

In connection with the post-office burglary last week on the premises of Mr. J. B. Williams, chemist and druggist, Chorlton-on-Medlock (*C. & D.*, February 6, p. 214), a well-dressed man, named Richard J. Martin, is under remand on a charge of being concerned in the robbery.

At the Manchester Brewster Sessions three chemists' wine-licences have been refused for the sale of medicated wines, including wines containing meat and malt extracts and passing under different trade-names. It was stated that such wines were in some cases above the ordinary alcoholic strength, and the applications were opposed by both the "trade" and the temperance advocates.

Alleged Saccharin-smuggling.

At the Thames Police Court on February 9, Solomon Rabsky (45), described as a mineral-water manufacturer, and his wife, Evie Rabsky, of Shadwell, and Henry Kleinman (35), traveller, of Dalston, were remanded on bail, for a second time, on a charge of concealing uncustomed saccharin. The female defendant was arrested in Dalston shortly after leaving Kleinman's address. Two 2-lb. bags of saccharin were found upon her, and eleven empty 1-lb. tins at her husband's house.

At the North London Police Court on February 8, Barnett Kosky (42), cabinet-maker; Morris Kosky (22), traveller; and Morris Bederman (22), engineer, described as Austrian subjects, living at 10 Greenwood Road, Dalston, were remanded, on substantial bail, on a charge of harbouring uncustomed saccharin. A sack containing 20 lb. of saccharin was taken from Bederman, while ten 2-lb. bags joined together, apparently so as to be worn as a belt, were found in a fowlhouse in which the younger Kosky was hiding.

Sheffield Notes.

A seven-weeks-old infant, named Albert Beaumont, was taken seriously ill after a dose of soothing medicine, and died four hours later. However, it was revealed at the inquest that the mixture had nothing to do with the cause of death, which was due to apoplexy.

At the West Riding Assizes at Leeds on February 6, James Brown (35), labourer, Sheffield, was sentenced to twelve months' hard labour for attempting to murder his son, aged three years, by administering laudanum. Mr. G. Squire, Ph.C., 19 Haymarket, Sheffield, deposed at the trial on the previous day that the bottle of laudanum contained a quantity sufficient to cause the death of the child had it been administered.

Contracts.

St. Pancras Guardians.—Mr. K. Schall, 75 New Cavendish Street, London, W., for an *x*-ray apparatus at a cost of 68*l.*

London County Council.—Messrs. Brown & Son, 25 Charlotte Street, London, N., for the supply of deflagrating-spoons.

Wakefield Town Council.—Mr. H. Pollard, chemist and druggist, 35 Westgate, Wakefield, for the hospital drug-supply.

Plymouth Town Council.—For yearly supplies to the Borough hospitals: Messrs. Corbyn, Stacey & Co., Ltd., for drugs at 20 per cent. and druggists' sundries at 10 per cent. off Messrs. Barron, Harveys & Co.'s list-prices; the

Western Pigment Co., for disinfectant-powder; Square & Co., for soaps at per cwt.: carbolic 29*s*., phenol 35*s*. 6*d*., carbolic (1-lb. bars) 24*s*., transparent 54*s*., yellow 22*s*. 9*d*., scrubbing 13*s*., primrose 23*s*. 6*d*., soft 17*s*., toilet (10 to lb.) 54*s*., (8 to lb.) 46*s*., (4 to lb.) 54*s*., coal-tar 54*s*.; Messrs. McDougall Bros., for disinfecting-fluid, at 3*s*. per gal. (sterile coefficient 18) and 3*s*. per gal. (organic coefficient 13); Messrs. Burt, Boulton & Haywood, Ltd., for sanitary fluid, at 1*s*. per gal.

Wine and Spirit Licences.

Off wine-licences have been granted to the following, on giving an undertaking to sell medicated wines only:

Mr. G. Chicken, Pelaw, Newcastle-on-Tyne.

Mr. S. A. Noble, 14 Ye Market, Selsdon Road, South Croydon.

Mr. Walter Woodruff, chemist and druggist, 3 Woodford Lane, Bramall.

Mr. C. D. Blakeman (Hartshill Drug-stores), 549 Hartshill, Stoke-on-Trent.

Mr. Samuel M. Hibberd (Martyn's Stores, Ltd.), 41 Wolverhampton Road, Heath Town, Staffs.

Mr. Herbert M. Johnson, pharmaceutical chemist, 38A Adelaide Street, Blackpool.

The applications of the following have been refused by the Licensing Justices:

Mr. J. Morris, Cannon Street, Manchester.

Mr. F. E. Palmer, 170 Unthank Road, Eaton, Norwich.

Mr. J. Brooks (Joshua Brooks & Co., Ltd.), 42 Shudehill, Manchester.

Mr. Herbert Taylor, chemist and druggist, 17 Woolton Street, Woolton, Liverpool.

Mr. C. H. Griffiths, chemist and druggist, 192 Ashton New Road, Beswick, Manchester.

Mr. A. E. Baylis, chemist and druggist, Barnard's Green and The Exchange, Great Malvern.

Mr. John Jackson, chemist and druggist (Messrs. Harrison, Parkinson & Co.), 7 Sunbridge Road, Bradford.

Mr. Richard Butler, chemist and druggist, 110 Great Horton Road, Bradford.

Mr. George Herbert Baker, 573 Manchester Road, Bradford.

Mr. John George Walker, chemist and druggist, 716 Manchester Road, Bradford.

Mr. Herbert Pollard, 218 Undercliffe Street, Bradford.

Mr. Charles Robinson, chemist and druggist, 23 Lilycroft Road, Manningham, Bradford.

The following off wine-licences have been transferred:

Mr. H. E. Clement, chemist and druggist, to 5 King's Parade, High Street, Hampton Hill.

The licence held by Mr. Edward Hirst, chemist and druggist, 22 Market Street, Colne, to new premises at 24 Market Street.

The licence attached to the business of the late Mr. J. Horsley Wilkinson, 15 Church Street, Colne, to Mr. Robert Henry Huggins, chemist and druggist.

At Rochdale Brewster Sessions on February 3, eight chemists' wine-licences were objected to on the ground that the holders had violated the condition of selling only medicated wines. The licences were renewed, in cases where such a condition had been imposed, on the licensees promising to sell only medicated wines; and the objections were withdrawn in the instances in which the licences were originally granted without any stipulation: *e.g.* in the case of Mr. G. S. Dean, chemist, 133 Sporland Road. Mr. Dean obtained his licence before the Licensing Act, 1902, unconditionally, and he successfully contended that he was entitled to its renewal on the old lines.

On behalf of the Batley Co-operative Society, Mr. S. Brearley applied for a medicated-wine licence for the new drug-department. He stated that although if the society supplied wines to members only, the Licensing Act would not have been contravened, they had decided to apply for an off-licence to place them on an equality with chemists. Mr. C. E. O. Walker, who opposed the application on behalf of the Dewsbury Chemists' Association, pointed out that there were four chemists's shops possessing this licence within a very short distance of the Co-operative Stores. The Magistrates decided to refuse the licence on the ground on non-necessity.

An off spirit-licence has been granted to Mr. Robert Read, chemist and druggist, Thorne, near Doncaster.

"They Buy Soap."

At Ipswich on February 8 Charles Sheffer and Marcel Berthelot were charged with stealing 19*s*. 3½*d*., belonging to Mr. George Nelson Edwards, chemist and druggist, 47 St. Nicholas Street, Ipswich (*C. & D.*, February 6, p. 214). Dr. Kirby, a French master, acted as interpreter. Prosecutor in giving his evidence said that on February 1 the prisoners entered his shop late in the afternoon, and Sheffer asked for soap and added "Irritation" as he pointed to his chin. He wrapped up a piece of carbolic soap and handed it to Berthelot, who took the soap and tendered a sovereign in payment. Witness placed the coin in his vest pocket, after taking out two half-sovereigns. He proceeded to get the remainder of the change from the till, when Sheffer in broken English said, "Smaller money." Witness then placed the money on the cash mat, and Sheffer then remarked, "No, no; more soap, Erasmic soap." Prosecutor procured this, but kept a watch on Sheffer, who answered to the description of a man wanted elsewhere (*C. & D.*, January 9, p. 66). On picking up the coin again, which witness believed to be the sovereign, Sheffer proceeded to ask him questions. He then gave Berthelot 19*s*. 3½*d*. change. When the men had gone he found the coin was a shilling. He gave information to the police, and next saw the prisoners at the railway-station. Sheffer admitted he was the "deceiver" and that he received the money. Both defendants pleaded guilty and expressed regret for their actions. Prisoners were also accused of obtaining two sums of 19*s*. 3*d*. each from Mr. W. Oxborrow, tobacconist, and Mr. Ward, shoemaker; while Mr. B. Cuthbert, tobacconist, was smart enough to notice the third time the coin changed hands that it was a shilling that was tendered. The Chief Constable stated that the prisoners had associated with bad characters in London, though they had never been previously convicted. They were wanted at Leytonstone, Gravesend, and Colchester for similar offences. The Magistrates decided to pass sentences on both prisoners of three months' imprisonment in each of the two cases, and to recommend their deportation on the expiry of their six months' detention.

Irish News.

Local Newspapers containing marked items of news interesting to the Trade are always welcomed by the Editor.

The Chemist's Bill.

Mr. Sunner, pharmaceutical chemist, Cork, was one of the plaintiffs in a case heard at the Tralee Quarter Sessions last week, when claims were made from the executors of the late Mr. Hugh Burke, Tralee, for medical attendance, medicine, and nursing. Judge Shaw allowed Mr. Sunner's claim, and awarded him 1*l*. for expenses.

Business Changes.

Dr. B. A. O'Flynn has opened a new medical hall at Manorhamilton.

Mr. A. McNaughten, chemist and druggist, Beturbet, co. Cavan, has removed his business to larger premises in Bridge Street, beside the Town Hall.

Messrs. Jones, Son & Co., chemists, Warrenpoint, co. Down, have acquired additional premises (next door to their present premises), to which they have removed the fancy-goods department of their business. More space is now available for the pharmaceutical branches of the business.

Mr. A. McCurdy, pharmaceutical chemist, has opened the Alexandra Pharmacy at 30 York Road Belfast. Mr. McCurdy served his apprenticeship with Mr. White, chemist, late of York Street, Belfast. Afterwards he gained further experience as assistant in Mr. Andrews', Crumlin Road, and Messrs. C. & J. Montgomery's, Royal Avenue, Belfast.

Personal.

The Rev. F. G. Gibson, of Tobermore Presbyterian Church, has accepted a call to Ormond Quay, Dublin.

Mr. Gibson is a brother of Mr. Samuel Gibson, J.P., President of the Chemists' and Druggists' Society of Ireland.

Mr. Maxwell Thompson, of Messrs. John Clarke & Co., wholesale druggists, was one of a deputation which waited on the Tramway and Electricity Committee of Belfast Corporation on Monday to urge that commercial travellers should be provided with better tram facilities to catch early morning trains.

Mr. Charles J. B. Dunlop, pharmaceutical chemist, 12 Lower Camden Street, Dublin, has passed the final examination in medicine, surgery, and midwifery at the recent examination of the Royal College of Physicians and the Royal College of Surgeons in Ireland. Mr. Dunlop is also a Licentiate of the Rotunda Hospital, Dublin.

Scots News.

Local Newspapers containing marked items of news interesting to the Trade are always welcomed by the Editor.

Aberdeen and the North.

Mr. Duffton, chemist, Huntly, has been appointed chemist to the Huntly Lodge of Free Gardeners.

The trustees of the Stephen Hospital, Dufftown, have appointed Mr. Geo. A. McGregor, chemist, to supply medicines, etc., during the ensuing year.

Mr. Robert Hunter, chemist, is removing from his present pharmacy, 118 Union Street, Aberdeen, at the May term, to premises at 111 Union Street, nearly opposite.

Dunfermline and The Poisons and Pharmacy Act.

At the mid-quarterly meeting of the Dunfermline Co-operative Society on February 8, the Chairman (Mr. G. Wright) called attention to a matter of "urgent importance"—viz., that, in consequence of the Poisons and Pharmacy Act, 1908, if they were to carry on the business of chemists and druggists, they would have to make the manager of the drug-department a member of the committee with full powers on the committee. In reply to a suggestion that it was sufficient to have the name of the manager above the board, the Chairman replied that there was a possibility that they could not dispense drugs. After some discussion, the committee's recommendation to make the drug manager (Mr. Angus McDonald, chemist and druggist) a member of the committee, in order to comply with the provisions of the new Act, was unanimously adopted. A meeting of the members is to be called in order that the necessary alterations in the rules may be made.

At the meeting of the Dunfermline Town Council on February 8, a circular was read from the town chemists in regard to the new Poisons and Pharmacy Act. The Provost remarked that the druggists wanted to make a "corner in poisons," and desired the Council to give them "Home Rule." Mr. J. H. Fisher, Ph.C. (a member of the Council), pointed out that the Act only applies to outlying districts where reasonable facilities do not exist for obtaining poisons, and the chemists were notifying the local authorities that it is their duty to consider this fact before granting a licence. Mr. Stewart: And you are an interested party? (Laughter.)—Mr. Nicol: The self-denying ordinance should apply.—The matter then dropped.

Edinburgh.

With the lengthening day the sales are strengthening, but there is room for improvement.

A man demanded Patrick Ford's bile-beans the other day. Mr. Ford is prospective Unionist candidate for East Edinburgh, and apparently his fame is growing.

A Slander Action by Mr. W. G. White against Mr. John Birch, chemist, Rotherham, came before Mr. Justice Lawrence on February 6. It arose from a betting transaction, and was settled in court, the defendant withdrawing the words upon which the plaintiff moved. Mr. W. J. Uglow Woolcock, of the Pharmaceutical Defence Union, Ltd., wrote to the "Sheffield Daily Telegraph" stating that there is no such name as John Birch on the register of chemists and druggists. Consequently Mr. Woolcock says that to describe Mr. Birch as "chemist" is "misleading and incorrect"—is it?

French News.

(From the "C. & D." Paris Correspondent.)

Imitation Mineral-waters.—As the result of numerous complaints, summonses have been issued against two Paris mineral-water dealers, who are accused of having supplied aërated distilled water prepared by themselves in the places of well-known brands of mineral-water ordered.

Pharmacy Inspectors.—The following Professors of the Paris Superior School of Pharmacy have been nominated Pharmacy Inspectors (under the Food and Drugs Act) for 1909: M. Guignard (Director of the School), Professors Bourquelot (Secretary of the Codex Revision Committee), Perrot, Coutière, Rebeau, Radais, Behal, and Grimbert, and Assistant Professor Guerbet.

British Trade in France.—At the annual meeting of the British Chamber of Commerce in Paris, held on February 5, Mr. Walter Behrens, the President, in reviewing the work of the year, referred to the endeavours of the Chamber to secure greater protection for British trade-marks in France. The Chamber has addressed a memorial to the British Government, with a view to obtaining reciprocal protection for the benefit of the two countries.

The White-cross Congress.—On February 5 the Universal Society of the White Cross of Geneva held an important meeting at the College of France, with a view to organising the eleventh Congress for the repression of frauds in food and drugs, which is to be held in Paris next October. Dr. Bordas, chief of the chemical laboratories at the Ministry of Finances, occupied the chair. M. Perrot, Professor of Materia Medica at the Paris Superior School of Pharmacy, gave details of certain proposals regarding pharmaceutical preparations.

Selling Saccharin.—M. Ferré, a Parisian pharmacist, was prosecuted by the authorities for forwarding his "Edulcor Sugar" without fulfilling the formalities necessary when selling saccharin. Non-suited by the Lower Court, the Excise appealed and carried the case up to the Court of Cassation. The original decision was, however, confirmed, and the pharmacist has definitely gained his case. The Court holds that the ordinary formalities regarding saccharin are not applicable to pharmacies, for which the law provides a special *régime* for this substance, which consists (as per Article 52 of the law) in the keeping of a special register stating quantities delivered and used, etc., etc.

Arsenical Insecticides.—The question of insecticides having arsenic as a basis continues to receive the attention of the Paris Academy of Medicine, the general opinion being that the use of arsenic in this way is dangerous. At the last meeting of the Academy an amendment was proposed by M. Weiss, and duly carried, to the effect that a medical inquiry should be made with a view to studying the effects of using arsenical insecticides. The President stated that the result of this vote would be transmitted to the Minister of Agriculture. The same subject has been under discussion at the Paris Academy of Sciences. Ferrous arsenate was there referred to by MM de Vermorel and Dantony as superior to other arsenic compounds: it adheres better, and is harmless to vegetation. On the other hand, Dr. Cazeneuve, Senator and leader of the pharmaceutical group in the French Parliament is going to interrogate the Prime Minister and the Minister of Agriculture on the subject. The use of arsenical insecticides at present is illegal, but nevertheless has become general. He draws attention to the poisoning crimes which have been committed, mistakes made through using these dangerous compounds, and the presence of arsenic in the wine coming from vineyards treated by arsenical preparations, all of which constitute dangers to public health.

Cuban Honey and Wax.—The exports of honey from Cuba during 1907 amounted to 66,026 cwt., against 59,933 cwt. in 1906, and 75,139 cwt. in 1905; three-fifths went to Germany, and one-fifth to the United States. Of beeswax the exports were 14,514 cwt. in 1907, 12,382 cwt. in 1906, and 13,677 cwt. in 1905, the shipments being absorbed by Germany and the United States.

Australasian News.

The fullest information regarding the Australasian drug-trade and pharmacy is given in "The Chemist and Druggist of Australasia," copies of which can be obtained at 6d. each, post free, from the office of "The Chemist and Druggist," 42 Cannon Street, London, E.C.

New South Wales.

Wages Board.—A Pharmacists' Assistants' Association has been formed in Sydney to counteract the efforts that are being made to bring chemists' assistants under the influence of trade-unionism. The preliminary meeting was held on November 29, the object of the Association being decided upon. A second meeting took place on December 13, when Mr. Hedley Davey (the President) addressed the members. A resolution was passed dissenting from the proposed amendment of the Industrial Amendment Arbitration Act, which will have the effect of bringing chemists' assistants within the Act. The main argument used is that pharmacists' assistants are educated men of professional standing, trade-unionism being the resort of the uneducated labourer. The Shop Assistants' Union have also held a meeting to answer the points raised in Mr. Davey's speech.

Trade Hindrances.—At a meeting of the Retailers' Section of the Proprietary Articles Trade Association of New South Wales, a letter was read from a prominent English manufacturer, the following extract from which may assist in accounting for the reluctance of home firms to list large imported lines in New South Wales. He expresses some curiosity as to how selling-prices can be satisfactorily fixed, "in view of the ever-changing duties imposed by your authorities. Business with Australia seems day by day to be made more difficult; for, what with the suggested disclosure of formulæ regulations and the very high duties imposed on all kinds of advertising materials, the manufacturer in the Mother-Country is put at a great disadvantage. It is at times almost impossible to keep in touch with duties which are taken off and put on again within the limits of even one mail."

Pure Food Bill.—It was not until the final discussion of the recommittal of the Pure Food Bill that it was noticed that the word "drug" is made to include all medicines for internal and external consumption or use by man, and disinfectants, soaps, dusting-powders, essences, and unguents used by man, and disinfectants, germicides, antiseptics, and preservatives used for any purpose. (1) By Clause 15, where any person sells a food or drug which is a mixture, on or attached to the package shall be a statement or label legibly and uniformly written, stating that the food or drug is a mixture, and the names of the ingredients; provided that it shall not be necessary so to attach a statement or label in the case of (*a*) a drug supplied by prescription or order signed by a legally qualified medical practitioner for any person then under his care and treatment; or (*b*) a mixture exempted from this section by the regulations, which exemption may be applied to classes of articles. (2) No person shall sell any food or drug which is a mixture, in respect of which the provisions of this section have been contravened or have not been complied with. If a prescription is dispensed some time after it was originally written, the chemist will have to safeguard himself by attaching to the bottle the names of the ingredients, but apparently not the proportions. The clause applies also to all the proprietary medicines put up by a pharmacist for his own sale, and to all other proprietary medicines sold in New South Wales, also to all soaps. The only escape is that these things may be exempted by regulation.

New Zealand.

Opium Act.—Eight Wellington chemists were prosecuted early in December for not keeping the regulation opium-book in which to record all purchases, sales, and uses of opium. Five were each fined 20*s.*, and costs amounting to about 2*l.* 3*s.*, the other cases being dismissed.

A Week's Work.—At the Auckland Police Court on December 16, Mr. John W. Robinson, chemist, was fined 5*s.* and costs for employing a boy in connection with his business at a wage of less than five shillings per week. A schoolboy was paid eighteenpence a week to call once every evening solely for the purpose of carrying any messages that might be required.

Victoria.

Reciprocity.—The regulations granting powers to the Pharmacy Board of Victoria to accept certificates of pharmacists from Queensland and Western Australia (see *C. & D.*, January 2, p. 7) were gazetted on December 9. Only New Zealand and Tasmania are now outside the circle of reciprocity in Australasia.

The Dentists Bill (see *C. & D.*, December 5, 1908, p. 852) passed all its stages in the Legislative Council of Victoria on November 24, and on November 25 it was received in the Legislative Assembly and read a first time. But political convulsions have prevented its further progress, and the dissolution has put an end to its chances for this Session. As Parliament is dissolved, not prorogued, it is probable that it cannot be revived next Session at the stage at which it was abandoned.

South African News.

(From the "C. & D." Correspondents.)

Cape Colony.

Business Change.—Mr. C. Richards has purchased the business of Mr. W. R. Badman, chemist and druggist, Kalk Bay.

Is Odol a Medicine?—At the Cape Town Police Court on January 13, Emil Kolsh, hairdresser, was charged with selling a bottle of Odol, he not being in possession of a patent-medicine licence. The defendant did not appear, owing to illness, and the case was accordingly adjourned. The charge is exciting considerable interest in trade circles, as it is understood that the question of liability turns on the wording "arrests decay." If this principle is upheld nearly every dentifrice at present sold will require the Government stamp to be affixed. ["Arrests decay" is not considered to involve liability to duty in Great Britain.—Editor *C. & D.*]

Opium Importation Act.—At the Cape Town Police Court on January 13, Alfred Husking, described as a European farmer, was charged with having unlawfully imported into the Colony 22 lb. of opium, or alternatively that he stole the same. The accused was arrested with 1 lb. of the drug in his possession, and about 18 lb. was found in his rooms. Accused said that he had come from Johannesburg, but refused to state where the opium had been obtained. At the second hearing, on January 15, Mr. A. Walsh (Lennon, Ltd.) deposed that the opium was not a Colonial product, but of the Indian type, and to his knowledge there were no farms in the Colony on which the opium-poppy is found. The defending counsel said the charge was ridiculous, as the article sold was a common drug, yet his client was charged with importing it. Husking was committed for trial at the present sessions, bail being fixed at 100*l.*

Transvaal.

Business Change.—Mr. H. A. France, chemist and druggist, has removed from his old premises in Monument Street, Krugersdorp, to a pharmacy a few doors higher up.

Illicit Opium-traffic.—An article in the "Transvaal Weekly" for January 14 accuses chemists of a system of fraud in connection with permits for opium-smoking. The procedure of sale to the Chinaman who acts as middleman is detailed as follows:

> A Chinaman who is authorised to hold a permit purchases 2 lb. of opium from a chemist, surrenders his permit, and obtains a receipt. He goes away, and, after concealing these two packets in his house, returns and obtains another 2 lb. from the chemist, a much higher price being paid on this occasion. Should a police officer suspect the Chinaman of having obtained the opium illegally, he produces the receipt which was granted to him originally, and the police have perforce to be satisfied. The process is continued until either the Chinaman's capital is exhausted or the chemist's discretion restrains him.

The opium thus sold is then characterised as chiefly smuggled. What do the chemists say?

Legal Reports.

Trade Law.

Fees for Dental Work.—Sheriff Thomson, Hamilton, has given judgment in an action by an unregistered dental practitioner to recover payment from a customer for remaking a set of teeth. The power of an unregistered dentist to recover fees for work done was argued before his Lordship, pursuer's solicitor citing the judgment in Seymour *v.* Pickett (English Court of Appeal) in support of his contention that the Dentists Act only prohibits an unregistered dentist from recovering charges for operations, such as teeth-extraction. The Medical Act, 1886, was quoted by the defender to show that the prohibition embraces charges for other dental operations. The Sheriff sustained the defender's plea, remarking that the Act is wider in its application than admitted by the pursuer, who, he held, was not entitled to recover payment for the work done, and he granted absolvitor to the defender, with expenses. [The words of Section 5 of the Dentists Act are: "A person shall not be entitled to recover any fee or charge, in any court, for the performance of any dental operation or for any dental attendance or advice, unless he is registered under this Act or is a legally qualified medical practitioner." There is nothing in the Medical Act, 1886, to overrule this. Section 6 enables medical practitioners to recover "charges in respect of medicaments or other appliances." How this was read into the Dentists Act provision the report does not show. In any case the judgment is equivalent to that of a County Court, and does not affect the English Court of Appeal decision.—Editor *C. & D.*]

High Court Case.

Share Calls.

In the Nisi Prius Court, Dublin, on February 3, Mrs. Martha Marshall, widow of the late Mr. Richard Curtis Marshall, chemist and druggist, Dungannon, was the defendant in an action brought against her by the National Assurance Co. of Ireland to recover 275*l.* for calls in fifty shares which Mrs. Marshall held in the company. There was a call of 6*l.* per share, which on the fifty shares would amount to 300*l.*, but a payment of 25*l.* had been made in advance of calls. It was alleged that the shares had been transferred to defendant without her knowledge, but the transfer was witnessed by her husband. No dividend was paid by the company as it had gone into liquidation. Mrs. Marshall swore that she had never bought or sold any shares, and that she knew nothing about the matter in question until after her husband's death. The jury returned a verdict for the defendant.

"K.M.S." Trade-mark.

In the Chancery Division on Tuesday, February 9, before Mr. Justice Neville, an action was brought by A. Boake, Roberts & Co., Ltd., manufacturing chemists, 100 Carpenters Road, Stratford, Essex, against Wm. Abraham Wayland, trading as W. A. Wayland & Co., manufacturing chemist, Deptford, claiming an injunction to restrain the defendant, his servants and agents from in any manner infringing the plaintiffs' registered trade-mark "K.M.S. No. 283888," and from passing off or enabling or assisting others to pass off any preservative not being the plaintiffs' goods as a preservative of the plaintiffs'. Plaintiffs also sought an order for the delivery up of all trade documents and receptacles in the possession or power or under the control of the defendant relating to plaintiffs' trade-mark, and also damages or an account of profits. Defendant disputed the validity of plaintiffs' trade-mark, claiming that the letters "K.M.S." was the ordinary description of a substance manufactured by him and others as well as plaintiffs, and resisted plaintiffs' right to the exclusive use of the letters. Mr. Jenkins, K.C., and Mr. Sebastian appeared for the plaintiffs, and Mr. A. F. Peterson, K.C., and Mr. Kerley represented the defendant.

Plaintiffs' case was that they and their predecessors in business had for many years been in the habit of manufacturing and selling a preservative for wines and beer, of which the proper name was bisulphite of potassium, sometimes called potassium metasulphite, but which they, for trade purposes, described as kalium metasulphite. For more than twenty years they had used the letters "K.M.S." as their distinctive trade-mark for the preservative. It had become thoroughly well known, and identified their manufacture. On June 18, 1906, they had the trade-mark registered. They complained that defendant had used their trade-mark for a preservative manufactured by them by marking the same on casks or kegs in which they sold and delivered their preservative, and by employing the letters "K.M.S." in their advertisement-literature. They asserted that this was calculated to lead to the defendant's preservative being passed off and sold as their preservative, and, attaching great value and importance to their trade-mark, they asked for the protection of the Court for themselves and their customers. Mr. Jenkins, K.C., in stating the plaintiffs' case, informed the Court that Mr. Arthur Boake and Mr. Fredk. Geo. Adair Roberts invented improvements in the manufacture of potassium bisulphite, the product being distinguished by the inventors by the name of meta- or iso-anhydro bisulphite of potassium. The salt was procured by treating potassium bicarbonate either dry or in solution, or by a mixture of potassium sulphate and calcium hydrate in suspension or solution in water at a boiling temperature with sulphurous acid till the whole of the base was converted into bisulphite, and the solution had attained a specific gravity of 92° Twaddell or thereabouts. It was then run off into crystallising vessels and crystallised in the usual way. The mother-liquor was drawn off when the temperature of the liquor had fallen to about 30° C., and returned to the generating-vessel to be again treated with more base and sulphurous acid.

The whole of Wednesday was occupied by witnesses for the plaintiffs, viz., Dr. E. R. Moritz, Mr. A. Gordon Salamon, M. Laurence Briant, Mr. Eustace Berry (a director of the plaintiff company), Mr. Thomas Tyrer, Mr. H. B. Peck, Mr. David Archibald, Mr. Rogerson, Mr. Gerald P. Woodcock, Mr. Hy. James Dixon, Mr. Robt. E. Cheesmen, Mr. A. H. Merton, and Mr. E. J. Palmer. The further hearing of the case was adjourned.

On Thursday Mr. Palmer continued his evidence, and was followed by Mr. A. H. Lewis, Sheffield, and Mr. E. Kent, Weymouth.

This concluded plaintiff's case.

Mr. Petersen, K.C., asked leave to recall Mr. Berry, in order to question him respecting certain circulars recently issued by plaintiffs, which he submitted showed that they were still holding themselves out as patentees. Mr. Jenkins, K.C., objected, and his Lordship upheld the objection.

Mr. Petersen, K.C., then outlined the case for the defence. Defendants made a general denial of the allegation that they had infringed plaintiffs' trade-mark, or that they had sought to pass off their own product as that of plaintiffs' manufacture. They denied that the plaintiffs' predecessors in business were the true or first inventors of the substance, and asserted that they had from 1897 manufactured and sold their preservative under the name Kalium meta sulphite, or by the initials "K.M.S." It was thus that the salt was now generally known and described. The name Kalium meta sulphite and the initials "K.M.S." were merely descriptive of the preservative, and were not distinctive of the plaintiffs' goods or a trade-mark. They denied that the trade-mark No. 283888 was duly registered. Alternatively they pleaded that they had only used the initials "K.M.S." as a *bonâ-fide* description of the character and quality of their goods.

Evidence in support of this statement was given by Mr. W. A. Wayland (defendant) and others, the hearing being adjourned.

Medical Acts.

Use of Titles.

At Dungannon on February 8, James McGuire was prosecuted by the Medical Defence Union for having on various dates in 1903 falsely pretended to be a registered medical practitioner within the meaning of the Medical Acts, 1858 and 1886. The case has previously been the subject of proceedings in the High Court. Among the qualifications which defendant represented on his cards was that of Licentiate of the Apothecaries' Hall, Dublin. Defendant, who did not appear, was fined 20*l.*, and costs.

Sale of Food and Drugs Acts.

Sweet Spirit of Nitre.

At Eserick on February 4, Thos. W. Fountain, of Dunnington, was fined 1*s.*, and costs, for selling this spirit 55 per cent. deficient in nitrous ether.

Powdered Rhubarb.

At the Thames Police Court, before Mr. John Dickinson, on February 5, Simon Wlado, described as a chemist and druggist, of 64A Grove Street, Commercial Road, was summoned, at the instance of the Stepney Borough Council, for selling powdered rhubarb containing at least 20 per cent. of foreign starch resembling maize starch. Mr. G. H. Young appeared on behalf of the Council; Mr. F. H. Adams represented the defendant; while Mr. Montagu Piesse watched the proceedings on behalf of Messrs. Hodgkinson, Prestons & King, wholesale druggists.

Mr. Ambrose W. Styles, an inspector, proved the purchase on December 21 of 1½ oz. of powdered rhubarb, for which he paid 5*d*. He produced the report of the analyst showing that the powder contained 20 per cent. of foreign starch. Defendant showed him an invoice, but did not mention anything to witness about a warranty. Witness saw the defendant again on January 13 at the corner of Prescott Street, and then no mention was made about a warranty. Cross-examined, witness admitted that an invoice was shown him, but defendant did not say where he obtained it. Witness did not take any notice of the invoice. By Mr. Piesse: He was not prepared to swear that the name of Messrs. Hodgkinson, Prestons & King was not on the invoice. The one now submitted resembled the one shown him by defendant, as far as he knew.

Defendant then went into the witness-box to be examined by his solicitor, but as he was unable to speak English the services of Mr. C. Pilenas, the Court interpreter, had to be requisitioned.

The Magistrate (evidently astonished): What, a chemist that doesn't understand English?

Mr. Young: Rather dangerous, I should say.

In answer to Mr. Adams, defendant said he had a small drug-shop in Grove Street. On the evening before the inspector called a man came and asked for 2 oz. of rhubarb. As he did not have any in stock, he told the customer to call on the following day. He went to Messrs. Hodgkinson, Prestons & King and purchased 4 oz. of rhubarb, for which he paid 8*d*. The man called the following morning and bought 2½ oz. of the powder for "his stomach." The inspector came in shortly afterwards and asked for 2 oz. He knew the inspector well, and told him he had only 1½ oz. left. This the inspector purchased. A price-list of Messrs. Hodgkinson, Prestons & King was then handed defendant, and he said that he had received several similar lists from that particular firm.

Mr. Adams: There is a paragraph in the list which states that all articles purchased from them are guaranteed pure. My client, therefore, relies upon this warranty.

Mr. Piesse: We are prepared to stand on our warranty, but I am prepared to prove that defendant got the rhubarb from my clients after the inspector had called.

The Magistrate: Did he know at the time he bought the rhubarb that it was pure?—Defendant: I asked them that question although I knew it.

The Magistrate: At the time?—Defendant: Yes, when I got the invoice.

The Magistrate: What did they say?—Defendant: I don't know. I didn't ask myself. It was a friend of mine—Mr. Ginsberg, a chemist of Sidney Street, Commercial Road.

The Magistrate: Did defendant know what the person said who supplied the powder? He might have spoken in a foreign tongue?—Defendant: My friend told me what was said.

The Magistrate: If you knew they guaranteed it, why did you ask the question?—Defendant: Because I wanted the cheaper kind. Continuing, defendant said if he wanted to buy anything he looked at the price-list. He had been dealing with Messrs. Hodgkinson, Prestons & King for eight months. He purchased rhubarb before December 21, but he could not remember the date.—By Mr. Piesse: He did not know there were fifty doses in 2½ oz. of rhubarb.

At this stage Mr. Dickinson handed defendant a price-list of Messrs. Hodgkinson, Prestons & King, and asked him to read the first paragraph and explain what it all meant. After some time had elapsed defendant said he could read it, but he could not understand what it meant.

Mr. Adams: We rely upon the guarantee.

The Magistrate: But he does not understand.

After evidence had been given by Mr. Solomon Ginsberg, who said he went with defendant to purchase some rhubarb one day in December of last year,

Mr. Dickinson said he would allow an adjournment for the purpose of enabling Mr. Adams to call a witness for the defence.

County Court Cases.

A Defence that Failed.

In the Shoreditch County Court on February 9, before Judge Smyly, K.C., Messrs. F. Hewthorn & Co., 70 Finsbury Pavement, E.C., proprietary-medicine vendors, sued Wm. Beddell, of Much Wenlock, Salop, to recover 2*l*. 18*s*. 9*d*. for goods supplied. The defendant had filed an affidavit to the effect that when he received the summons it was too late for him to get his witnesses together to prove that he had not purchased on his own behalf, but for a disclosed principal. Judgment was, however, entered for the plaintiffs, with costs. In the same court at the same time

A Fancy-soap Case

was heard. It was a matter of alleged sale or return. Hyman Cohen, 98 Columbia Road, N.E., grocer and provision merchant, had ordered a quantity of fancy-soap from Messrs. Gerard Bros., Ltd., of the Soap-works, Nottingham, and when they applied for payment he said it was bought on sale or return. Messrs. Gerard, however, obtained a judgment-order against him for 8*s*. 5*d*., being balance of account, he having sent a cheque in payment for what he had not returned. Mr. Cohen now wanted the order to be set aside, but, after hearing him and Mr. Cornish for the respondents, in the course of which the applicant stated that "large quantities of soap are sold to chemists on sale or return, which they display on their counters, and they are changed from time to time by the seller," his Honour refused the application.

Shop-fittings Dispute.

At the Portsmouth County Court, before Judge Gye, on February 4, Mr. Benjamin Barnato, drug-store keeper, sued Mrs. Boss, newsagent, for the return of certain cases and fittings, or, in the alternative, a sum of 32*l*. It appeared that Mr. Barnato acquired by purchase the shop in Charlotte Street, Landport, in which Mr. and Mrs. Boss carried on the business of newsagents, and at the time of the purchase certain cases, counters, and fittings were in the shop, and it was claimed that these were included in the purchase by Mr. Barnato. Mr. Boss had since died, and after his death plaintiff sought to get possession of the premises for the purpose of his own business, and after a time Mrs. Boss, finding another shop, vacated the premises, but she removed the cases, counters, and other fittings, which Mr. Brooks, by whom the property was formerly owned, now proved to belong to the shop; and his Honour gave judgment for plaintiff, but said he was satisfied that the claim as to amount was grossly extravagant, and he gave judgment for 10*l*. at 10*s*. a month.

Bankruptcy Reports.

Re Joseph Henry Collins, 369 Brockley Road, Brockley, and 3 Imperial Buildings, London Road, Forest Hill, London, Chemist and Druggist.—The Official Receiver for the Greenwich district has issued his report, which embraces the figures given in the *C. & D.* report of January 23, p. 107, and adds: On December 10 last debtor executed a deed of assignment in favour of a trustee for the benefit of his creditors, and subsequently filed his petition. Debtor attributes his present position to losses on the Forest Hill business and to pressure by creditors, which has prevented him realising his assets at their full value. With minor exception the unsecured indebtedness appears to be in respect of goods supplied to the debtor in the course of his business.

Re Frank Kay, Brooklyn, Manchester New Road, Middleton, Lancs, Manufacturing Chemist, etc.—The receiving order in this case was made on a creditor's petition on January 20, the act of bankruptcy being debtor's non-compliance with the requirements of a bankruptcy notice. The statement of accounts filed shows unsecured liabilities 614*l*. 14*s*. 11*d*., and no assets. Debtor states that he started business on his own account in 1900, with 48*l*. cash capital, under the style of F. Kay & Co., at Boarshaw Road, Middleton. Subsequently he obtained loans from his wife and her

mother, to the amount of about 850*l.*, and that money is now owing to them by F. Kay & Co., Ltd., who, it is said, took over the liability. In July 1905 the debtor removed his business to Rutland Street, Middleton. On June 4, 1908, he transferred his business, with its assets and liabilities, to F. Kay & Co., Ltd., as from December 1, 1907. The capital of the company was to be 3,000*l.*, divided into 3,000 shares of 1*l.* each. Only 1,316 shares were allotted. The debtor was to receive 1,300*l.* in 1*l.* shares as the consideration for transferring his business to the company, but the certificates for only 400 shares have been issued to him. Six persons hold debentures on the assets of the company to the amount of 1,000*l.* A printed balance-sheet of the affairs of F. Kay & Co., Ltd., issued on December 21, 1908, shows that the company's assets were insufficient to the extent of 3,557*l.* 19*s.* 5*d.* to meet its liabilities. A meeting of the company's creditors and debenture-holders was held on January 12, 1909, to consider the financial position, when it was decided to continue the business for six months, under a receiver, the debtor to act as manager of the business at a salary of 3*l.* per week. A creditor obtained a judgment against the debtor personally for 118*l.* for goods which he alleges have gone to F. Kay & Co., Ltd., and to this he ascribes his failure.

Deed of Arrangement.

Moore, James Bartholomew, 14 Redcar Avenue, Withington, Manchester, and James Albert Woods, 48 Thornley Lane, Reddish, trading as James Wood & Co., Albion Works, Abbey Hey, Gorton, near Manchester, Chemical-manufacturers. Trustee, A. Yearsley, 27 Brazennose Street, Manchester, C.A. Dated February 5; filed February 6. Secured creditors, 12*l.*; liabilities unsecured, 783*l.*; estimated net assets, 138*l.* Separate estate of J. B. Moore: liabilities unsecured, 48*l.*; estimated net assets, 10*l.* Separate estate of J. A. Wood: liabilities unsecured, 59*l.*; estimated net assets, 65*l.*

Gazette.

Partnerships Dissolved.

Bradford, G. H., and Rhodes, F. J., dental surgeons, Malton, Bridlington, Hull, and Hornsea, under the style of Bradford & Rhodes.

White, A. T., and White, C. A., liquorice refiners, Selby, Yorks, under the style of Taylor White.

The Bankruptcy Acts, 1883 and 1890.

Adjudications.

Gardam, William John, Birmingham, chemist and pharmaceutist.

Workman, Joseph (described in the Receiving Order as J. Workman), Duke Street, Manchester Square, London, W., dental surgeon.

Liquidation.

Milbay Soap, Alkali, and Soda Co., Ltd.—Mr. R. G. Laws, liquidator, will report to the shareholders at a meeting to be held at the works, Sutton Road, Plymouth, on March 10, at 11 a.m.

New Companies and Company News.

The letters P.C. mean Private Company within the meaning of the Companies Act, 1907, and R.O., Registered Office.

B. F. Goodrich Co., Ltd.—Capital 100*l.* Objects: To take over the business of rubber-manufacturers carried on as B. F. Goodrich & Co.

Hygienic Stores, Ltd. (P.C.).—Capital 100*l.* Objects: To take over the business of a wholesale and retail drug-store proprietor, bookseller, and publisher, carried on by L. Jackson at 95 Charing Cross Road, W.C., and two other businesses. The first directors are J. Sutton and A. Harris. R.O., 95 Charing Cross Road, W.C.

G. T. Fulford Co., Ltd.—Capital 1,000,000 dollars. Registered in Canada on December 15, 1905. Objects: To carry on the business of patent-medicine and drug manufacturers, etc. British address, 46a Holborn Viaduct, E.C. E. G Harrison and W. H. T. T. Powell are authorised to accept service at 5 Raymond Buildings, W.C.

Ubique Syndicate (Lim.) (P.C.).—Capital 340*l.* Objects: To promote any companies in Great Britain or elsewhere for the sale of certain medicinal preparations known as "Mersyren," and to carry on the business of chemists, druggists, etc. The first directors are Captain A. Neagle and C. W. Hindhaugh. R.O., 171-172 Finsbury Pavement House, Finsbury Pavement, E.C.

Pyrolignite Syndicate, Ltd. (P.C.).—Capital 1,000*l.* Objects: To enter into an indenture of assignment with Lord Montague of Beaulieu, T. Tyrer, and E. Thomas to acquire and turn to account certain patents and secret processes relating to the manufacture of acetone, charcoal, pyroligneous acid, and similar substances, and to carry on the business of manufacturers of and dealers in chemicals, etc. The first directors are Lord Montague of Beaulieu, T. Tyrer, and E. Thomas. R.O., 166 Piccadilly, W.

Borax Consolidated, Ltd.—The report for the year ended September 30, 1908, shows a profit of 274,878*l.* The directors propose a final dividend of 1*s.* 3*d.* per share on the deferred ordinary shares, making 10 per cent. for the year.

Bovril, Ltd.—The directors recommend dividends on the preference and ordinary shares at the rate of 5½ per cent. and 7 per cent. respectively for the second half of the year and 2 per cent. on the deferred shares for the year 1908, leaving 14,669*l.* to be carried forward.

Kemball Bishop & Co., Ltd.—The directors recommend a dividend of 4 per cent. (4*s.* per share) on the ordinary shares for the past year, and the placing of 2,568*l.* to reserve, 322*l.* to leaseholds redemption fund, 1,624*l.* to plant and machinery renewal fund, carrying 1,089*l.* forward.

National Drug and Chemical Co. of Canada, Ltd.—An issue by this company of 300,000 first preference shares of 1*l.* each, bearing 6 per cent. interest (cumulative), is notified in our advertisement pages. Full particulars in regard to the evolution and consummation of this merger of Canadian wholesale drug-houses were published in the *C. & D.* of December 2, 1905, the capital being $6,000,000. The work of amalgamation was completed and the business of the united concerns commenced on February 1, 1906, and has progressed steadily since. Several pages of our American and Canadian Issue of May 18, 1907, were devoted to portraits and personal particulars of the men who are leaders in the company. The business of Evans & Sons, Montreal, was one of the most important concerns absorbed by the company, and we notice that a block of 50,630 of the first preference shares is to be taken by Messrs. Evans Sons Lescher & Webb, Ltd., Liverpool and London, besides the 300,000 offered for subscription to the drug-trade and other investors. These shares stand in the place of debentures, being a first charge on the profits of the company, which for the first two years of trading were per annum more than double what is required to pay 6 per cent. dividend on the present issue of 350,630 shares. Debentures having a prior charge cannot be created without the consent of three-fourths of the first preference shareholders, the trustees for whom are Mr. John J. Evans, J.P., of Liverpool; Mr. J. H. Simpson, J.P., General Manager of the Bank of Liverpool, Ltd.; and Mr. D. W. Bole, M.P., President of the National Drug and Chemical Co. From the prospectus in this issue it will be seen that the subscription list will open on Monday, February 15, and will close on Wednesday, February 17. Forms of application may be obtained from Messrs. Evans Sons Lescher & Webb, Ltd., 56 Hanover Street, Liverpool, and 60 Bartholomew Close, London, E.C.; Bank of Liverpool, Ltd.; The Union of London and Smiths Bank, Ltd.; Manchester and Liverpool District Banking Co., Ltd.; The Canadian Bank of Commerce, 2 Lombard Street, London, and in Canada; Parr & Rae, Queen Insurance Buildings and Stock Exchange, Liverpool; and Geo. Whitehead & Chown, 23 Bucklersbury, and Stock Exchange, London, E.C.

Mortgages and Charges.—The following has been registered: *Sunrise Proprietary Co., Ltd.* Debentures for 150*l.*, dated January 28, held by O. E. Warburg.—*Ozonia Co., Ltd.* 500*l.* debentures, created January 28, 1909.

Information Wanted.

Inquiries for the names and addresses of manufacturers, or other trade information, not traceable by reference to the advertisement-pages of "The Chemist and Druggist" and the "C. & D. Diary," or not filed in our private register, are inserted here free of charge. Postcard or other replies to any of the subjoined inquiries (addressed to the Editor "The Chemist and Druggist," 42 Cannon Street, London, E.C.) will be esteemed.

206/17. Who supplies Thlaspi, a liquid medicine for diarrhœa in dogs?

203/9. Makers of AN-menthol toothbrush, and manufacturers of Lano-cresoline.

207/22. Makers of "Lily of the Valley Illusion" perfumes in nickel cases in the form of a lighthouse.

Births.

Eveleigh.—At 107 Coldharbour Road, Redland, Bristol, on February 4, the wife of B. C. Eveleigh, of a son.

Lee.—At 5 Marton Road, Middlesbrough, the wife of Arthur Lee, chemist and druggist, of a son.

Marriages.

Farina—Wahlen.—At Cologne on the Rhine, on February 3, Johann Maria, only child of Johann Maria Farina, of 4 Julich's Platz, Cologne, and 25-27 Gereonstrasse, Cologne, to Doris, only child of Peter Wahlen, of 59 Hohenstaufenring.

Innes—Smith.—At Victoria Villa, Lossiemouth, on February 3, by the Rev. J. W. Robertson, M.A., George Rome Innes, chemist and druggist, fourth son of the late Captain John Innes, Port Gordon, to Mary Shaw, younger daughter of Mr. George Smith, Lossiemouth.

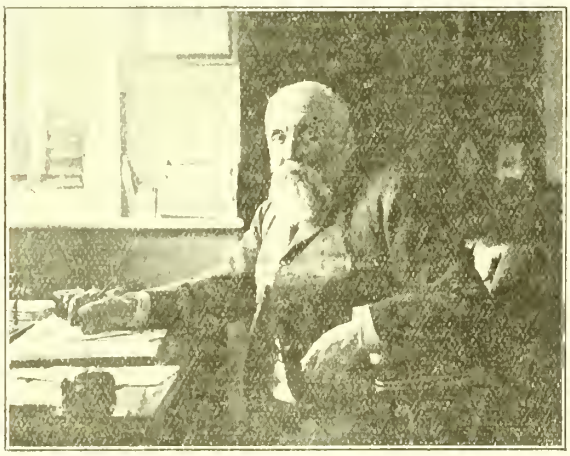
Deaths.

Hey.—At 1 Park Street, York, on February 8, Mr. Walter Thomas Hey, chemist and druggist. Mr. Hey succeeded to the business of the late Mr. T. P. Bulmer, at 4 Low Ouseegate, York, in 1874. He was a prominent Freemason, a member of the Merchant Adventurers' Company, and a warden and feoffee of St. Michael's Church, Spurriergate.

Holmes.—At Drumcondra, Dublin, on February 2, Elizabeth Frances, widow of the late Mr. John T. Holmes, pharmaceutical chemist, who was one of the original members of the Pharmaceutical Society of Ireland.

McMurrich.—At the Royal Infirmary, Edinburgh, on February 6, Mr. John McMurrich. Deceased had been with Messrs. T. and H. Smith, manufacturing chemists, Edinburgh, for thirty-four years.

Pears.—At his residence, Spring Grove House, Isleworth, on February 10, Mr. Andrew Pears, J.P., of Messrs. A. & F. Pears, Ltd., aged sixty-three. Mr. Pears was the great-grandson of Andrew Pears, who in 1789 was in business at Gerrard Street, Soho, and who introduced the transparent soap which has become known all the world over. The original Andrew Pears was in Gerrard Street for a short time only, then removed to Wells Street, Oxford Street, where he was joined in partnership by his grandson, Francis Pears, and the trading-name became A. & F. Pears. In 1846 the business was removed to Great Russell Street, where a retail shop is still retained, and in 1887 a magnificent building was erected in New Oxford Street as the administrative headquarters of the firm. The factory at Isleworth, of which Mr. Andrew Pears was the manager, was established in 1861, and covers several acres of ground.



Mr. Pears was a good chemist. In 1865 his father, Mr. Francis Pears, admitted him and his son-in-law, Mr. Thomas J. Barratt, as partners. From that time Mr. Andrew Pears controlled the manufacturing portion of the business, while Mr. Barratt assumed control of the administrative or business side. The firm was converted into a limited company in June 1892, with a capital of 610,000*l.*, besides 200,000*l.* in 5-per-cent. debenture stock; Mr. Barratt and Mr. Pears, who had been sole and equal partners in it up to that time, receiving 725,000*l.* for the entire business, including freehold and leasehold properties. The net profits then shown were close on 72,000*l.* for 1891, and the statement submitted for seven years showed gross profits between 95,000*l.* and 175,000*l.*, subject to advertising expenses between 31,000*l.* and 126,000*l.* per annum. Mr. Barratt became chairman of the company and Mr. Pears vice-chairman. The business, since its incorporation, has never paid less than 10 per cent. on the Ordinary shares. Of the remarkable manner in which Pears' Soap has maintained its popularity it is not necessary for us to speak, chemists of the British Empire being much more familiar with the article and the company's artistic methods of advertising than any other class of retailers. Mr. Pears was personally a man of wide interests. He had been Alderman of the Middlesex County Council and was very active in politics in that county; indeed, he was at one time spoken of as Liberal parliamentary candidate for the Brentford Division of Middlesex. He was happily married and is survived by Mrs. Pears and nine children—six of whom are sons. In 1902 Mr. and Mrs. Pears suffered a heavy bereavement in the sudden death of their second son, Andrew Pears, who was a Fellow of the Chemical Society and the chemist at the Isleworth works.

Perry.—At Gravesend, on January 23, Mr. Horatio Nelson Perry, chemist and druggist, aged fifty-eight.

Rhodes.—At Ashton-under-Lyne, on January 29, Mr. Arnold Rhodes, chemist and druggist, aged twenty-four.

Rowland.—At 36 Northwold Road, Upper Clapton, London, N.E., on February 8, Mr. Edward Edisbury Rowland, chemist and druggist, aged fifty-four.

Sedgwick.—At 11 Oxford Road, Blackpool, on January 31, Mrs. Theresa Sedgwick, widow of Mr. John Sedgwick, chemist and druggist, who predeceased his wife a year ago.

Stanford.—At Glenwood, Dalmuir, Dumbartonshire, on February 6, Jemima Margaret Gibb, widow of the late Mr. Edward C. C. Stanford, Ph.C., F.I.C., manufacturing chemist, Clydebank.

Sweny.—At 1 Lincoln Place, Dublin, on February 7, Violet Beatrice, eldest daughter of Mr. Frederick William Sweny, registered druggist, and managing director of Messrs. Sweny & Co., Ltd., aged twenty-three.

Business Changes.

Properly authenticated business notices (not being advertisements) are inserted in this section free of charge if promptly communicated to the Editor.

Mr. W. J. Peacock, chemist and druggist, has closed his premises in Main Street, Whifflet, Coatbridge.

Mr. Thomas Johnson, chemist and druggist, is retiring from business, and has closed his pharmacy at 8 Market Place, Wigan.

Mr. H. Cocker, chemist and druggist, has purchased the branch business of Messrs. W. Fox & Sons, at 23 Cranbrook Road, Ilford.

Mr. W. H. Johnstone, chemist and druggist, Penzance, has taken over the branch business of Mr. E. Jones, chemist and druggist, at 112 Station Road, Llanelly.

Mr. H. Goddard-Dutton, chemist and druggist, 26 Tyrrel Street, Bradford, Yorks, has sold his business to Mr. E. Hoyle, chemist and druggist, of Haslingden.

Mr. H. L. Allen, chemist and druggist, the proprietor of the businesses of Messrs. Allen & Lloyd, chemists, 59 High Street, Aldershot, and elsewhere, has taken Mr. W. H. Okill into partnership. The business will be carried on under the old title.

Personalities.

Mr. Albert L. Hull, senior representative of Messrs. Yardley & Co., Ltd., has been ill but is recovering.

Mr. J. P. Gibson, chemist, Hexham, has been elected a Vice-President of the Society of Antiquaries, Newcastle-on-Tyne.

Mr. J. P. Byrne, senior Assistant Secretary of Excise, has been appointed a Secretary to the Board of Customs and Excise.

Alderman Joseph Beecham, J.P., has given a donation of 250 guineas to the Extension Fund of the St. Helens Provident Free Hospital.

Mr. J. Laurie, chemist and druggist, 2 Lytham Road, Blackpool, has been elected a Vice-President of the local Tradesmen's Association.

Mr. Arthur Stooke, chemist, Gillingham, Kent, has been co-opted a member of the Executive Committee of the Medway District Traders' Association.

Mr. William Crockart, chemist and druggist, Montrose, N.B., sailed from Liverpool on Friday, February 5, for a trip to Australia and New Zealand and back.

Mr. R. A. Robinson, J.P. (Chairman of the London County Council), will be the guest of the evening at a house dinner to be held in the Municipal and County Club, Whitehall Court, on February 26.

Mr. Horatio Bolton, jun., managing director of Messrs. T. F. Bristowe & Co., Ltd., Clerkenwell, E.C., was installed as W.M. of the United Service Lodge, No. 1361, at the Café Royal on Thursday evening, February 4.

Alderman F. Bird, chemist and druggist, 156 Spon Street, Coventry, was reappointed a member of the Court of Governors of Birmingham University for three years, at the last meeting of the Coventry City Council.

Sir Daniel Morris, K.C.M.G., late Imperial Commissioner of the West Indian Agricultural Department, has been appointed Scientific Adviser to the Secretary of State for the Colonies on all matters relating to tropical agriculture.

Mr. Philip Snowden, M.P., has thanked the President of the North-East Lancashire Chemists' Association for their recent appreciative resolution, but owing to his engagements he and Mrs. Snowden are unable to accept the Association's invitation to the annual dinner.

Mr. Jack Wharton, chemist and druggist, Grimsby, was re-elected on the committee of the United Kingdom Commercial Travellers' Association at the recent annual meeting. Mr. Wharton was among the members of the committee who put in the highest number of attendances during the year.

Mr. Harry W. Cox, who has had a second operation as a result of *x*-ray dermatitis, on one occasion gave a demonstration before the King when he was Prince of Wales, and so interested was his Majesty that he had an *x*-ray apparatus installed on the Royal yacht. Hearing of Mr. Cox's misfortune, the King has written to Mrs. Cox a letter of sympathy.

Trade Notes.

Messrs. Armour & Co., Ltd., Atlantic House, Holborn Viaduct, London, E.C., have obtained from the War Office a large contract for canned corned beef in the ordinary trade packages. It will be put up under the supervision of English Army officers, and may run into large figures, as the contract extends over three years.

Gelatin Capsules.—A very complete price-list of gelatin capsules reaches us from Messrs. Mawson & Co., 213 High Road, Streatham, London. We estimate that about 250 different kinds of capsules are listed. The prices are carried out in each case for dozen boxes of 12, 24, and 36 as well as per 100 or per 1,000. Perles, pills, suppositories, pessaries, and bougies are also made by this firm.

S.V.M.—Messrs. Randall & Son, Ltd., Southampton, tell us that the past year has been a record with them in the production of methylated spirit. The business principles which guide the company have probably much to do with the progress which it is making, but it is a very interesting fact that this newly established industry is making such headway. Industrial spirit is, we learn, growing in favour with manufacturers, but the extent of the sales of methylated spirit to retail chemists is the feature upon which Messrs. Randall & Son pride themselves the most.

Business Information.—Messrs. Curtis, Gardner & Co., Ltd., King's House, King Street, Cheapside, London, E.C., inform us that they have started an intelligence department to their business, the object of which is to answer inquiries addressed to them on any subject. It is worked by a system of cheques, a number of which are supplied to each subscriber. The scope of the subjects upon which information is offered seems very wide and to cover all possible requirements of business firms. The bureau is not confined to financial matters. A booklet which is sent out describing the system can be obtained by addressing the company.

Wright's Window-shows.—The result of the window-display competition for 1908 in connection with Wright's coal-tar soap is given in the advertisement (inside cover) of Messrs. Wright, Layman & Umney, Ltd., in this issue. The first prize (5*l.*) goes to Messrs. Neve & Co., St. Leonards-on-Sea, second prize (2*l.*) to Messrs. Matthews & Son, Wanstead, third prize (1*l.*) to Mr. Cumber, Winton, Bournemouth, and in addition there are five consolation prizes. A competition for 1909 is announced, and as a hint to competitors we may add that originality of design is the point that tells most with those who judge the Wright windows.

A Pleasant and Smooth Shave is as much dependent on the soap as on the razor. That has of recent years been demonstrated by the success of one or two imported shaving-soaps, and British soapmakers have not allowed their reputation for quality to be smirched. The latest example brought to our notice is the "Erasmic," made by the Erasmic Co., Ltd., Warrington, which is a stick enclosed in a nickel-silver case, to retail at 10*d.*, and crimson and gold "outer." Six of the cartons are sent out in a new style of showcase, to place on the counter. Shaving has no terrors when this soap is used, and retailers should find it a ready seller that will bring "repeats."

New Cod-liver Oil.—Messrs. Allen & Hanburys, Ltd., Bethnal Green, London, E., received the first consignment of 1909 Norwegian cod-liver oil from their factories at Lofoten and Söndmör on Wednesday morning of this week, and we had a specimen of it in the afternoon. This is the first we have received this year, and if it may be taken as a criterion of what has still to come, this year's oil is exceptionally fine. It sometimes happens that the first consignments of oil are rather "fishy" to taste, but Messrs. Allen & Hanburys' oil has not this characteristic, being bland and butter-like in flavour with the merest *soupçon* of the cod about it. The oil is also remarkably pale and almost odourless. The firm will send samples and quotations to any of our readers on application.

Up-to-date Printing.—Messrs. James Townsend & Sons, Exeter, send us specimens of printing for chemists' use showing that they are ready to meet the changes in labelling Section 5 (1908) poisons—viz., mineral acids and soluble oxalates. The word "poisonous" has to be used in these cases, and Messrs. Townsend supply appropriate slip name-labels in the same style that those with the word "Poison" have been obtainable. The use of these labels will be compulsory in about six weeks' time. The poison register which Messrs. Townsend issue is now to be had with the 1908 poison schedule inserted. In this register one page is devoted to each poison-sale, and the size of the book is $4\frac{7}{8}$ by $3\frac{7}{8}$, which gives it advantages over older patterns. We note that handbills are also being issued in which the word "pharmacist" is prominently displayed. These points show that Messrs. Townsend are keeping up their reputation for being up-to-date in supplying chemists' wants in the printing line.

Winter Session of Chemists' Associations.

Association Presidents.

We have not hitherto had an opportunity of printing in this niche the portrait of a chemist who acts in the dual capacity of secretary and chairman of a chemists' association. That distinction, however, belongs to Mr. James Bridge Francis, J.P., of the Wrexham Chemists' Association. Mr. Francis is senior partner of the firm of Francis & Co., chemists, Wrexham. He served his apprenticeship with the late Mr. John Francis, and extended his experience as an assistant with Messrs. Fleeming & Son, Wolverhampton, and Dr. John Clough Thresh, Buxton. Subsequently Mr. Francis had some wholesale experience with Messrs. Evans, Sons & Co., Liverpool. He passed the Minor on December 16, 1884. In Wrexham he has found time to serve his fellow-townsmen in municipal affairs, having been a member of the Town Council and alderman of Wrexham for ten years. As Chairman of the Public Health Committee his scientific training has been of great service. He has been Secretary of the local Chemists' Association since 1906, and takes a great interest in all pharmaceutical matters.

Mr. Francis.

Brief Records.

Three Towns' Chemists' Association.—At a meeting of the Junior Section at Plymouth, on February 3, Mr. A. E. Barber gave a lecture on "Aconite and Digitalis." The chief characteristics of each plant were described and followed with great interest.

The Guildford Chemists' Association met at the Angel Hotel, Guildford, on Wednesday, February 3, at 7 P.M., when Mr. Inman presided. A letter to the borough and county authorities in regard to the agricultural and horticultural provisions of the Poisons and Pharmacy Act was read and approved for despatch to the local authorities.

Newcastle-on-Tyne Chemists' Association.—A meeting was held at the Hôtel Métropole on Wednesday evening, February 10, Mr. T. Maltby Clague (President) in the chair. Messrs. Kerse, Gilderdale, Gibson, Buckley, Pescod, Cubeg, Dakers, Dean, Wright, R. U. Low, Wyatt, Doig, Noble, Russell, and Atkins were also present. The business of the meeting was a lecture by a gentleman who was averse to publicity.

Sheffield Chemists' Trading Association.—The annual meeting was held on February 5 at the Temperance Hall, Mr. Gilbert Jackson occupying the chair. The statement of accounts and report for the year were adopted. The chairman, on behalf of the members, presented Mr. H. G. Williams, the Treasurer, in view of his forthcoming marriage, with a handsome case of cutlery, for his valuable services to the Association.

Great Yarmouth Pharmaceutical Association.—The monthly meeting of this Association was held at 156 King Street on February 4. There were present Mr. Male (President) and Messrs. Palmer, Shearman, Hill, Williams, Poll, Davies, and Richmond. The arrangements for the annual dinner in March were left to be arranged by the committee. The Secretary also gave a short report of the progress of the chemists' rifle team

Blackpool and Fylde Association.—A meeting of this Chemists' Association was held on February 5 at the Palatine Hotel, Blackpool. Mr. Johnson presided; there were also present Messrs. Turver, Hall, Mayson, Bailey, Sankey, Laurie, Rosenzweig, Huddart, Steele, and Boothroyd. The President, Mr. Sankey, Mr. Laurie, Mr. Turver, and the Secretary were appointed a sub-committee to consider what steps to take in respect to Clause II. of the 1908 Pharmacy Act. The Chairman introduced a discussion on "A System of Exchange," and a sub-committee was formed, composed of Mr. Bailey, Mr. Mayson, and Mr. Steele, to go further into the subject and to formulate a scheme. It was decided to hold a whist-drive at an early date.

Radio-Active Elements.—At a meeting of the Leeds Chemists' Association held on Wednesday evening, February 10, at the Church Institute, Mr. F. W. Branson, F.I.C., lectured on 'Radio-active Elements." He first referred to the discoveries which led up to the isolation of radium, and then illustrated the phenomenon of radio-activity. The radio-active elements—uranium, radium, and thorium—were discussed. The continuous production of helium by radium was explained, and quantitative figures were given. Methods of counting particles which give close approximation of result, the colouring of certain minerals in granite by radio-active bodies, and other interesting facts were illustrated by means of experiments. At the close a very hearty vote of thanks was accorded to Mr. Branson.

Wrexham Chemists' Association.—A meeting of this Society was held at the Wynnstay Arms Hotel, Wrexham, on February 4, Mr. C. G. Caldecott in the chair. Members expressed satisfaction, after eighteen months' trial, at the success of the earlier closing arrangement, which gives six hours' weekly extra leisure. It was resolved that the members only supply urgent medicines on Sunday. With regard to the Poisons and Pharmacy Act, it was resolved to supply the Town Council with evidence signed by Wrexham pharmacists that they are duly registered under the Pharmacy Acts for the sale of poisons and poisonous substances, in demand in agriculture and horticulture. It was also resolved to obtain instructions from the Pharmaceutical Society as to sending a requisition to the Denbighshire County Council.

Carlisle Chemists' Association.—The annual meeting of the Carlisle Chemists' Association was held at the Viaduct Hotel on February 4. Mr. J. Robson (President) was in the chair. There were also present Messrs. T. Ridley (Vice-President), J. Hunter, P. Simpson, senr., Errington, J. Johnston, T. M. Ridley, W. B. Wilson, C. M. Dalziel, J. W. Lambert, and J. J. Robinson (Secretary). After the adoption of the balance-sheet the officers were re-elected for the ensuing year. A resolution of congratulation was passed to the Pharmaceutical Society on the passing of the Poisons and Pharmacy Act, 1908. It was agreed that the Secretary send letters to the Mayor of Carlisle and the Chairman of the Cumberland County Council, embodying the names and addresses of chemists who are prepared to supply at lowest current prices the poisonous preparations in general demand in agriculture and horticulture, including poisonous sheep-dipping preparations, weed-killers, and insecticides.

Mercerising.—At a meeting of the Manchester Section of the Society of Chemical Industry, on February 5, Mr. Julius Hübner, of the Manchester School of Technology, read a paper on the effect of adding salt to the caustic soda lye used in mercerising. It was recently stated in one of the German chemical journals that soda lye which has been saturated with salt exerts a stronger mercerising action than ordinary lye. Mr. Hübner and Professor Pope had, however, found some years ago that the mercerising action is retarded if water-glass or glycerin is added to the soda lye. Mr. Hübner therefore investigated the effect of the addition of salt to the soda lye, and as the result of a number of experiments it is found that this addition not only does not increase the mercerising action of the lye, but, on the contrary, retards the swelling, the shrinking, and the untwisting of the fibres. As the lustre produced in mercerising under tension is, however, the result of these three typical actions, it was found that an inferior lustre is produced if salt is added to the soda lye. Cotton mercerised with soda lye, with and without the addition of salt, was also tested by Mr. Hübner's zinc chloride iodine test, with the result that a lower degree of mercerisation was indicated in every instance where salt had been added to the lye.

Animal Heat.—The subject on the list for the meeting of the Chemists' Assistants' Association at 73 Newman Street, W., on February 4, with Mr. E. Thompson occupying the chair, was "Has Man Evolved?" by Mr. W. Hunter Richards, M.B., but the lecturer pointed out that the subject was a debatable one in which they would not get much further, so he proceeded to deliver an extempore lecture on "Animal Heat," commencing with the relative values of foods (fats, proteids, and carbohydrates), and then dealing with various ways in which heat is lost by the body. He next described how the thermogenic centre of the brain regulates the heat of the warm-blooded animal, its impulses making the vaso-motor or vaso-dilator nerves respectively contract or dilate the arteries, stimulate the sweat-glands, or increase the rate of oxidation in the muscular tissue by means of the nutritive (trophic) nerves. This thermogenic centre was the distinctive feature between warm-blooded and cold-blooded animals, its absence in the latter being the reason why they simply acquire the temperature of the media in which they live. The healthy nervous system was one which maintained heat-loss and heat-production in harmony to keep the temperature normal. Messrs. Thompson, Wilkinson, Loxley, Furnival, and others

took part in the subsequent discussion, which turned upon dieting, fevers, and lethargy, to which Mr. Richards suitably replied. A hearty vote of thanks to the lecturer terminated the meeting.

Sheffield Pharmaceutical and Chemical Society.—The programme for the current session has just been issued, and shows that arrangements have been made for a paper on February 17 by Mr. John Austen, Ph.C., on "Poisonous Plants Growing in the Neighbourhood of Sheffield," illustrated by lantern-slides produced from nature. On March 4 Mr. W. S. Glyn-Jones will give an address on the Poisons and Pharmacy Act, 1908, and on April 14 Mr. John Evans, F.I.C., F.C.S., public analyst for York, is to lecture on "Preservatives and Colouring-matter in Food." The notice issued by the Hon. Secretary (Mr. J. B. Pater) giving the foregoing particulars also refers to a new by-law adopted by the Council of the Society, as follows:

That the following be added to the Society's rules:

"Any member of the Council who shall commit any act or acts which appear to the Council derogatory to the honour of his office shall give an explanation of the same to the Council on being requested to do so, and in default thereof, or if such explanation be unsatisfactory to the members present, notice may be given by any member of the Council for a motion of removal from the Society or from the Council of the member so offending, which notice shall be inserted in the summons for the ensuing meetings of the Council until disposed of. Upon such motion having received the votes of the majority of the members present, and having been duly declared carried, it shall be immediately effective, and the member referred to shall forthwith cease to be a member of the Council or of the Society."

Impromptu Subjects.—A meeting of the Oldham and District Pharmaceutical Association was held at the Oriental Restaurant on Tuesday, February 9, Mr. Charles Gartside (President) in the chair. Business relating to the Poisons and Pharmacy Act and to the sale of spirituous preparations by small shopkeepers was transacted, after which the meeting took a novel form. Slips of paper were handed to each member, on which he was requested to write a question of pharmaceutical interest, or suggest a subject for consideration. These papers were collected and "shuffled," then each member took one from the heap and was expected to speak upon what was written thereon, his speech not to exceed five minutes. Three of the suggestions had reference to "co-operative buying clubs." The following were other subjects: "What action should be taken regarding the sale of ammonia in bottles other than poison-bottles—particularly beer-bottles?" "Has the card-index system any advantage over the usual prescription-book?" "Glass measures"; "What is the best way to make lin. camphoræ?"

Ferri et quin. cit.	...	...	...	ʒij.
Spt. chloroformi	...	...	...	℥ss.
Aq. ad	...	...	...	℥vj.

When the ferri et quin. cit. is dissolved, say, in ℥iv. of water by agitation in the bottle a copious froth forms. If the spt. chlorof. be now slowly added the froth disappears. Why?

"Crescent" Debating Society.—This is the name of a Society which was started in Clifton, Bristol, last year by a few chemists' assistants; Mr. Fred Hockin, of Messrs. Giles, Schacht & Co., being President. The programme for the next three months gives a good idea of the work of the members. It is as follows:

February 18.—"Whist-drive." Messrs. Baker and Bottomley responsible

February 25.—"Free Will" (Mr. Parsons) "*v.* Determinism" (Mr. Hockin). "Abolition of Marriage Laws." Messrs. Robb (P.) and Starkey (C.).

March 4.—"Fiction Competition." Mr. Quin responsible.

March 11.—"Is there a Special Providence?" Messrs. Coles (P.) and Thorn (C.). "Universal Suffrage." Messrs. Robbins (P.) and Quin (C.).

March 18.—"Shakespeare-reading." Mr. Baker responsible.

March 25.—Impromptu Speeches and Debate.

April 1.—"Is Play Censure Needed?" Messrs. Willis (P.) and Baker (C.). "Monarchy *v.* Republic." Two new members responsible.

The meetings are held at Regent House, Merchants Road, Clifton, every Thursday at 8.15 P.M., closing at 10.30. The membership is not confined to pharmacy, and this circumstance is found to be rather an advantage. It has turned out to be a friendship society, and Mr. Hockin remarks that it should be of advantage to more chemists' assistants in the locality. The office-bearers are trying to get into communication with them, and in the meantime they may take this note as an invitation to be present at the meeting on February 18.

Stockport Chemists' Association.

A Meeting was held at the County Restaurant, Stockport, on Wednesday evening, February 3, Mr. W. P. Orrell (President) in the chair. There were also present Messrs. Jones, Royce, Travis, Reach, Dodge, Nicholson, Bowden, Inglis, Westerman, Stabler, Crossley, and Watson. Mr. Owen Arnfield and Mr. F. Hobbs were elected members of the Association. Mr. F. D. Crossley, of Cheadle Hulme, read a paper on

The Drug-trade of Forty Years Ago.

The author was apprenticed to a chemist in Yorkshire in 1862. At the end of his apprenticeship he came to London, and for two and a half years was engaged exclusively in dispensing. In 1867 he got a position with the Export Drug Co., wholesale druggists, Upper Thames Street, the first wholesale drug firm to take advantage of the Limited Companies Act. The retail trade was then distrustful of limited companies, and, in spite of the fact that nearly all the shareholders were chemists in business, they did not support it, and it came to an untimely end. In 1868 Mr. Crossley went to Messrs. Drew, Barron & Co., which in 1870 became Barron, Squire & Co., with whom he was shipping clerk until 1883, when he went to Messrs. Oldfield, Pattinson & Co., of Manchester, where he has been till the present day. At the time that he went into the wholesale drug-trade sophistication was rife—*e.g.*, cream of tartar containing 94 per cent. of potassium acid tartrate was considered to be very good—and he recalled a case in which it was proved in court that this was the best procurable, and the case was won on that defence. He attributed the improvement in supplies to two things: first, the necessity for qualification meant that the retail trader is a more scientific man, and expects good and pure drugs and sees that he gets them; and, secondly, the Sale of Food and Drugs Act of 1875 made it incumbent upon all firms to see that their products were above suspicion. Mr. Crossley next spoke about how London wholesale druggists buy drugs and chemicals, and, referring to the drug-sales, said the late Mr. Edward Horner, of Horner & Sons, was in his day considered the best buyer of drugs in the trade, and his lead was watched and most eagerly followed. That house dates from Queen Elizabeth's day, and Shakespeare mentions "the perfumes of Bucklersbury," where the drug-warehouse of the firm's predecessors was situated. Mr. Crossley also referred to brokers' allowances, and quoted some that existed in his early days as curious, although they still survive in modified form. There were few provincial wholesale houses then. Mr. Crossley attributed the birth of the country wholesale houses to improved and cheaper means of carriage, and said that they soon adapted themselves to the needs of retailers in their localities. Prices on the whole are much lower, due to cheaper carriage, quicker steam communication, and cables. For instance, if a house run short of copaiba and there is none in London, they cable, say, to Rio; some boat in the docks is sure to be there which in eighteen or twenty days will land the goods in London. In the old days it took two months to send the order and another two to get the goods. In those days houses with big stocks made huge profits.

A short discussion followed, and Mr. Crossley was heartily thanked, on the motion of Mr. Bowden, seconded by Mr. Nicholson.

Festivities.

Bradford Conversazione.

An enjoyable conversazione was held at Bonnet's Café, Bradford, on February 9, in connection with the Bradford Chemists' Association. There were forty-seven persons present. During the evening two interesting competitions took place, one being a guessing competition, and the other a competition in quoits. The winners were as follows: Guessing competition: ladies (necklet), Miss Dunn; gentlemen (cigarette-case), Mr. R. W. Tilson. Quoits competition: ladies (hat-pin), Miss Dunn; gentlemen (guard), Mr. G. Penty The prizes were presented by the President (Mr. D. S. Priestley). An excellent musical and conjuring entertainment was also given, which was much enjoyed. The arrangements were carried out by Mr. Smithies (Hon. Secretary).

Boots' Diners.

At the annual dinner and concert of the Boots' Recreation Club at Stephenson's Restaurant, Sheffield, on February 4,

a party of over fifty members and friends assembled. After dinner an excellent programme was given by the members of the staff, including Misses Woodall and Chambers and Messrs. Robinson, Greenfield, A. Clarkson, Hodges, England, Waring, Paton, and Airey.

A dinner was held at the Albion Hotel, Manchester, on February 3, under the auspices of Boots' Social Club (Manchester) After dinner a musical programme provided by Messrs. Shields and Cliffe was interspersed with recitations by Mr. Horwood. The loyal toast was followed by that of "Mr. and Mrs. Boot," the Chairman (Mr. Thompson) replying. Mr. Coates then urged on all the desirability of becoming acquainted with the provisions of the new Pharmacy Act. A vote of thanks to the Chairman, followed by further songs, rounded off a successful evening.

A Double Dinner.

The Annual Dinner of the cricket and horticultural clubs run in connection with Messrs. Ferris & Co., manufacturing chemists, was held at the St. Stephen's Restaurant, Bristol. Mr. Weekley, the Secretary of the Cricket Club, stated that the first eleven had won eight matches as against six lost, while two were drawn. The batting and bowling prizes went to Messrs. T. Seaviour and H. Weekley respectively, and in the second team awards had been won by Messrs. A. Bridges and J. Nutt. Mr. G. Baker, the Secretary of the Horticultural Society, said the five shows held during the year showed that much good work was being done by the organisation. Prizes had been awarded to Messrs. G. Baker, A. and F. Bennett, E. Horler, J. Nutt, F. Rayson, T. Watson, and W. Welch; and a presentation was then made to Mr. Sage as a mark of appreciation of his services as judge. The toasts of the evening included that of "The Firm," proposed by Mr. A. Waite, in which he referred to the loss sustained by the death of Mr. Charles Townsend. Mr. H. H. Townsend, Mr. J. M. Boucher, and Mr. K. Townsend, in replying, referred to the good fellowship existing between employers and employés. A good musical programme was interspersed between the speeches.

Whist.

The whist-drive held by the Manchester Pharmaceutical Association at the Grand Hotel, on February 8, was a pronounced success, a company numbering well over a hundred being present. Mr. Geo. Woolley distributed the prizes to the successful competitors—the ladies' prizes going to Miss Lane and Mrs. John Wild after a deciding game, in which Miss Lane won, to play off the tie; while Messrs. C. Brown and Birkenhead obtained the gentlemen's awards and Mrs. Walton secured the booby prize. After an admirable concert, Mr. F. W. Bates proposed and Councillor Harry Kemp seconded a vote of thanks to the artists who had entertained the assembly so well. The committee were also complimented on the successful gathering, which everyone enjoyed.

Over a hundred and thirty members and guests of the Brighton Association of Pharmacy gathered at the Old Ship Assembly Rooms on February 9 for a whist-drive and dance. Among the company were Mr. W. H. Gibson, F.C.S. (President), Mr. J. R. Gwatkin (Treasurer), Mr. and Mrs. H. M. Black, Mrs. Gwatkin, Mr. H. R. and Miss G. M. Gwatkin, Mr. R. P. Heath, Mr. and Mrs. W. H. Hewett, Mr. L. C. Hewett, Mr. and Mrs. Miller, Mr. Jackson, Mr. W. Jago, F.I.C., F.C.S., Mr. and Mrs. J. K. Padwick, Mr. and Mrs. C. E. Robinson, Mr. G. B. and Miss B. Savage, Mr. and Mrs. J. and Miss E. Smithson, Messrs. C. and A. Williamson, and Alderman J. J. Clark. The prize-winners were Mrs. Reed, Miss Theobald, Mrs. Tacey, and Messrs. H. M. Black, Cox, and Perkins. At 11 p.m. dancing commenced, and by the time it finished (3 a.m.) everyone voted the evening a most enjoyable one.

Messrs. Cooper & Co., chemists and aërated-water manufacturers, 56 Bentinck Street, Calcutta, have issued a neat pamphlet regarding the manner in which they manufacture aërated waters, including various flavoured beverages. The pamphlet measures 3 in. by 5½ in., and is a smart bit of advertising. It may interest those who have never been in India to know that the price for 14-oz. bottles of soda-water is 6*d.* per dozen to consumers, and the 8-oz. bottles 4*d.* per dozen, while all sweet drinks, such as lemonade, are 9*d.* per dozen.

Prescription Problem.

There was an excellent response to the problem given in the Winter Issue, and it has taken us some time to examine the numerous cards sent in. The reading of the prescription is as follows:

℞ Sod bicarb griij
Glycerin ʒiij
Tin Card Co ʒj.
Ess limoni ♏xxv
Tinc Zingib for ♏xx
Inf caryoph ℥j
Aq ad ʒiij
ʒj 4 hor

The fourth item in the prescription caused the most trouble to the competitors. Ess. Limonis is not commonly prescribed, but in parts of the country there are medical men who order it, we believe, as a flavouring agent, the prescribers being unacquainted with the physical properties of the essential oil. It is possible, however, that the essential oil acts as a carminative, but it is not easy to shake up in the mixture given above. Among the suggestions for this item which have been received are these:

Ess. ol. anisi	Lac. conii	Tinct. carmin
Ess. anisi	Ess. cumin	Lac. cucumi
Ess. carmin	Laudanum	Ess. carui
Sol. carmin	Lac ammoniac	Ess. cinnam.
Succ. limon.	Gelsemin	Eth. chloric
Ext. conii	Lac cerii	Ext. euony
Succ. conii		

It should be added that by far the largest number of competitors gave this ingredient correctly, the next favourite being "ess. cumini." The other mistakes in transcription were of a minor character, some of the competitors losing sight of the fact that in these problems we require an exact transcription of the prescription. Additional notes may be added, but we do not ask for either a full English or Latin reading.

The following are the prize-winners, these three competitors having sent in exact transcriptions. To prevent misunderstanding we should add that many others were within a few inches of the winning-post, the errors being of a trivial character but fatal in a competition of this kind, where the top positions are hotly contested:

Miss G. Farrer, Horfield Pharmacy, Bristol.
Mr. H. R. Hussey, 9 Arthur Road, Southampton.
Mr. H. Jouchin, Manchester Road, Denton.

Persian Opium.

The British Consul at Bushire, in his report for the Persian fiscal year March 22, 1907, to March 21, 1908, states that the exports of opium amounted to 4,251 cwt., against 2,781 cwt. in 1906-07, valued at 238,405*l.* and 157,777*l.* respectively. A feature was the record shipments (2,950 cwts., with a value of 165,567*l.*) to London, and the small amount exported to China —394 cwts. The reasons given are the short yields of Turkey crops, owing to which the Persian drug was much in demand on the London market, so much so that re-shipments were even made from Hong-Kong to London. Sales to arrive on the basis of 10 per cent. morphine-test were made during the middle of 1907 as high as 15*s.* 6*d.* per lb. The demand fell off in September 1907, and prices did not recover again owing to good reports of the Turkish crop of 1908. January 1908 saw 1,200 chests of Persian opium in London unsold. The opium-crop in Persia during 1907 was, however, considerably less than that of 1906. It is satisfactory to note (says the Consul) that there is an improvement in the percentage of morphine, and with the China import closing it is very necessary that the Persian dealer should, for the welfare of his business in general, maintain the standard. A Persian merchant in Shiraz has acribed the great falling-off of the export from Persia to Hong-Kong of recent years—when it used to amount to from 8,000 to 12,000 chests—to the capture of the Formosan market by the Japanese. In any case the London market, he states, cannot generally be counted upon to take much Persian opium, and Persian trade will suffer a financial loss all round through an effective prohibition of the import into China. One Bushire merchant of many years' experience has stated that such a stoppage now or later would prove a national misfortune to Persia. Exports from Bushire alone to Hong-Kong have been valued as follows during recent years: 1900, 343,860*l.*; 1901, 308,488*l.*; 1903, 151,430*l.*; 1904, 184,758*l.*; 1905, 104,967*l.*; 1906-07, 109,814*l.*

Observations and Reflections.

By "Xravser."

Is Permanence or Mutability

the more definite characteristic of pharmacy? The question submits itself in consequence of the letter from Mr. C. B. Allen published last week, naming October 29, 1880, as the date when cascara sagrada first came under his notice as a medicine. It requires an effort to realise that there was ever a time when we were unfamiliar with the impressive Spanish name of this drug. Those chemists whose memory of their apprenticeships has become somewhat dim and distant will be surprised if they will glance through their stocks of to-day and compare them with what they sold from then. The labels on the bottles and drawers are much the same as those which formed the art and mystery of our calling when we conquered it, and from which Galen could pretty accurately compound a prescription if he got engaged as dispenser in a modern pharmacy; but the first dozen customers would floor Galen or the apprentice of forty years ago, if he had been away from the shop since, eleven times. Compressed tablets were only beginning to be known when Mr. Allen received his

First Cascara Prescription,

and chemists were still making their own stock pills in some places. Quinine was 12*s.* 6*d.* per oz. in 1880, though it fell to 1*s.* 3*d.* before 1890. Artificial salicylic acid was being made, but the synthetics generally did not invade medicine until the later 'eighties. Cheap feeding-bottles came into stock some forty years ago, and the syphon-trade began within that period; but the photographic branch had hardly been touched by chemists in 1880. The endless panorama of proprietary remedies was, of course, varying daily, but it was not until the middle of the 'nineties that the mystic letters P.A.T.A. were associated with that section of the business. These are samples of the changes which have occurred in a single lifetime, but notwithstanding this unceasing procession of novelties the old pharmacy, the art of the apothecary as it was practised under the Pharaohs, and the ancient drugs which Hippocrates, Galen, and Avicenna handled, are still what we are thinking of when we talk of carrying on the business of a chemist and druggist.

A Radium Century

is a quite possible description of the one whose first decade has introduced the wonderful element to us, and has given us a preliminary forecast of its marvellous powers. Potentialities in physics and mechanics have been suggested—dreams they may be—which make us regard the substance as a sort of solid electricity, which it may be possible to harness and employ as a new source of heat, energy, and chemical action; for fixing atmospheric nitrogen, for example, for agricultural purposes. That there is a great future for the use of radium emanations in surgery was made evident recently, both by the striking lecture by Sir Frederick Treves and equally by the story of the sufferings which Mr. Cox, one of the most ardent workers on the therapeutic applications of the allied *x* rays, has had to endure. The establishment of a Radium Institute in London—mainly, it appears, for the purpose of testing the medical value of this agent, is gratifying, and it may be sincerely hoped that such organised investigation will be crowned with greater success than usually results from endowed efforts.

A Maxim

was prominently printed in the Winter Issue which might certainly be challenged by those who desire to honour useful pioneer work. We were told that "the best way to get what you want is to want what you can get"; an epigrammatic cold-shouldering of new ideas, new methods, and new departures generally. It was alleged that the quotation had been used by Mr. Glyn-Jones, presumably with approval, though hitherto that gentleman has not been usually classed among the people contented with things as they find them. I am not aware whether Mr. Glyn-Jones credited anybody with the authorship of his anodyne dogma, but perhaps the following verse is a good guess as to its origin:

> Let this plain truth those ingrates strike
> Who still, though bless'd, new blessings crave:
> That we may all have what we like,
> Simply by liking what we have.

This was written nearly a hundred years ago by Horace Smith. And while on the subject of maxims I am reminded to submit

A Pro-Medical Proverb

to "The Lancet" to take the taste of those disagreeable Spanish ones from its professional palate. The apophthegms enjoining respect for the physician and his medicines in the apocryphal book of Ecclesiasticus ("Honour a physician," etc.) are familiar, but a passage in the Hebrew manuscript of this work discovered some ten years ago has not been made so much of as might have been expected. It is translated "He that sinneth against God will behave arrogantly before his physician." Probably this might be read conversely also.

The Murder of Paracelsus

is alluded to by Mr. Maskew (p. 193 of the Winter Issue) as an undoubted historic event. "He was murdered by his enemies in 1541," the paragraph finishes. So far as I know, the evidence on which this legend is based is very flimsy. It is asserted that thirty years after his death the body of the famous medical reformer was exhumed, and that a surgeon who was one of his disciples had found that the temporal bone was fractured in such manner that it must have been done in life, and the inference that some rival doctors had pushed their dangerous competitor over some rocks was drawn without any hesitation. Obviously an accidental slip would account for the fracture just as well as the introduction of assassins, but the latter theory may have seemed more effective in the angry discussions then proceeding. More likely the whole story was fabricated, and Paracelsus died, as has been generally stated, in a little room of the White Horse inn at Salzburg, exhausted by the fatigues and excitements, perhaps the excesses, of a life in which from childhood he had never known a home.

An Increase of 104

names on the register of chemists and druggists (including pharmaceutical chemists) is the net progress of our body during the present century. At the end of 1900 the total was 15,863; now it is 15,967. The population of Great Britain is estimated to increase by a little more than 1 per cent. per annum; pharmacists have been increasing during the past eight years at a considerably less rate than one-tenth of 1 per cent. per annum. There is nothing alarming about these figures; indeed, they are rather satisfactory than otherwise, for most of us have fancied there has been a little too much crowding in our ranks. More interesting would be a census of chemists' shops. If these are somewhat fewer than they were, as is generally supposed to be the case, the slightly reduced proportion of qualified chemists to population would be accounted for. Ten thousand pounds' worth of business can be transacted more economically in ten shops than in twenty. Medicine-stamp sales, the only statistics available, show that the consumption of medicine keeps step with the growth of population. The deduction follows, therefore, that chemists' retail businesses are getting a little bigger on the average. In the same period pharmaceutical chemists have declined on the register from 2,236 to 2,070. These figures are significant.

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French Tariff-revision.

In view of the interest which has been aroused in British commercial circles by the proposed revision of certain sections of the French Customs Tariff, the Board of Trade have issued, as a Blue-book, the suggested amendments as they have been submitted by the Customs Commission of the Chamber of Deputies. It is stated in a prefatory note that the proposals have yet to be dealt with by the French Legislature, and may be substantially altered as the result of further consideration. It has, however, been thought

desirable to prepare, as early as possible, for the information of British traders, a translation of the proposals in their present preliminary form. Those portions of the tariff in which no alteration is proposed are also included in the volume with a view to show the complete tariff as it would be if the proposals were adopted, and the present rates of duty are added for comparison. Many of the proposals put forward are of a sweeping character, but the changes involved in the chemical and drug trades (as already given in our previous issues) are not so serious as in other industries—*e.g.*, cotton-goods and other textiles and steel-manufactures. The new proposals unmistakably show a considerable increase in the maximum tariff, this being done in order to induce countries whose goods now pay that tariff to make concessions to France in order to obtain the benefits of the French minimum tariff or most-favoured-nation treatment, which rates goods imported from the United Kingdom are subject to. Another feature is the specification of a large number of articles which have been introduced into France since 1892, and which are, therefore, not specially mentioned in the existing tariff. Further, special classes or subdivisions have been created in the tariff, in order either to favour the products of a given country or to discriminate against goods originating in such country. There is no doubt that many French manufacturers have demanded considerably increased duties on imported manufactured goods, and those which are supplementary to the list published a fortnight ago include a proposal to raise white-lead from 5f. to 10f. per 100 kilos. in the *minimum* tariff, and to place a duty on zinc oxide (formerly free) of 4f. 50c. (general) and 3f. (minimum). The general tariff on sulphate and other salts of quinine it is proposed to advance from 2,000f. per 100 kilos. to 2,250f., but the minimum tariff is to remain unaltered at 1,500f. Vanillin and its derivatives are to be provided for at a general tariff of 1,500f. per 100 kilos., and many synthetic perfumes and essences, such as benzyl acetate, linalyl acetate, artificial jasmin, neroli, rose, and musk; anethol, citral, geraniol, ionone, heliotropin, menthol, coumarin, thymol, terpineol, etc., which are not now specified, are to bear an *ad valorem* duty of 20 per cent., but in no case less, as regards products with alcoholic base, than the Customs-duty on the alcohol (Excise-tax has also to be paid). Formosa camphor is now specified for the first time, a duty of 6f. (general) and 4f. (minimum) being recommended, while on crude camphor a duty of 3f. (general) is proposed against 2f. formerly, and on refined camphor it is suggested that the general duty be raised from 7f. 50c. to 9f., the minimum remaining unaltered at 6f. per 100 kilos. These are a few of the more important alterations, but in view of the many proposed changes British exporters to France would do well to obtain the Blue-book (Wymans, Cd. 4489, 1s.). The Board of Trade have asked for expressions of opinion from the members of the London Chamber of Commerce, in order that representations may be made by his Majesty's Government protesting against the increased rates of duty. Such information should give the effect which the present classification and rates have on the chemical and drug trades, and the manner in which they are likely to be influenced by the proposed changes. In addition, arguments should be given in support of any suggestions for the reduction either of the old or the proposed new rates (*a*) from the point of view of British trade, (*b*) from the point of view of French interests. At the present time, when Franco-British commercial relations are of the most prosperous character, any increase in duties is especially regrettable.

Trade in January.

The Board of Trade returns for the past month are distinctly disappointing, even when allowance is made for the fact there was one working day less in January 1909 than in 1908. The imports were valued at 53,511,000*l.*, or 2,852,000*l.* less than in 1908 and 7,023,000*l.* less than in 1907; exports total 28,803,000*l.* against 34,408,000*l.* in 1908, or 5,605,000*l.* less, while compared with January of 1907 the decrease is 6,208,000*l.* Re-exports increased 88,000*l.* for the month, but were 2,106,000*l.* less than two years ago. Of the decline in imports last month 1,213,000*l.* was in cotton, but this was entirely due to a fall in prices, as the imports increased by 422,000 cwt. Food and drink imports were less by 776,000*l.* and foreign manufactured goods show a decline of 259,500*l.*, included among which was one of 80,892*l.* for chemicals, drugs, etc., which are returned at 740,827*l.* for the month. The features were a decline of 66,000*l.* in miscellaneous chemicals, 15,000*l.* in gambier, 13,600*l.* in miscellaneous drugs, and 3,245*l.* in cream of tartar. The decline in exports of manufactured goods amounts to 5,208,000*l.* (and not a single item in this schedule shows an advance). Practically half of the decline (2,671,000*l.*) was in cotton textiles; iron and steel manufactures were 409,700*l.* less, machinery 402,000*l.* and woollens 375,000*l.* less. A decrease of 145,196*l.* is recorded in the chemical and drug department, the exports totalling 1,317,332*l.* Crude and distilled glycerin, dye-stuffs and sal ammoniac were the only products that improved. Unenumerated medicines declined by 14,352*l.* to 119,711*l.*, but British quinine advanced from 2,572*l.* (55,395 oz.) to 3,481*l.* (79,819 oz.). A more hopeful feeling with regard to British trade exists in some quarters, but it appears that the year has begun sufficiently badly to stimulate all to a renewed effort. The returns for the first time show the imports according to the place of origin, not of shipment, and the exports are credited to the countries of final destination as declared by exporters, whether that country has a seaboard or not. In the present instance it is pointed out among the alterations that Germany and Switzerland are now shown separately. The full results of the alterations will be found in the Annual Statement of Trade and abstracts issued by the Board. Among the alterations in classification of imported articles, practically the only one of interest is that distinction is now made between rice-starch and other kinds of starch, while dextrin, farina, and potato-flour are grouped under one heading.

Tin in Canned Foods.

On behalf of the Local Government Board, Dr. G. S. Buchanan and Dr. S. B. Schryver have continued their work (*C. & D.*, 1906, 2, 968) on the presence of tin in certain canned foods, and their report, just issued, throws light on several interesting points regarding the toxicology of tin and determination of that metal in foodstuffs. Dr. Schryver has made a detailed examination of the amount of tin in further consignments of tins of food, about five to seven years old, which have been returned from South Africa. For determination of the amount of tin in a food-product Dr. Schryver favours the "moist-ashing" method on the lines of a Kjeldahl process, using potassium sulphate and sulphuric acid, in preference to dry or other moist incineration methods, with or without the use of oxidising-agents. He dilutes the sulphuric acid before adding it to the foodstuff and potassium sulphate in a round-bottomed Jena flask, so that during the subsequent concentration the proteins are hydrolysed and the products more readily oxidised. The clear liquid remaining in the flask is diluted

to 100 c.c., and the tin precipitated as sulphide by sulphuretted-hydrogen gas, and filtered after standing overnight. If the quantity of tin present is comparatively large (over 2 grains per lb.), 50 grams of the sample is treated as above (in two flasks), and the tin converted into oxide and weighed. For smaller amounts of tin, Dr. Schryver devised a colorimetric process which is substantially as follows :

> The filter-paper with the precipitate of tin sulphide, sulphur, etc., from 10 grams of foodstuff is transferred to a test-tube and boiled with 5 c.c. of concentrated hydrochloric acid. The liquid is filtered on a suction-filter, the filter being washed with another $2\frac{1}{2}$ c.c. of acid. The air is replaced above the filtrate by a current of carbon dioxide, and a standard strip of zinc-foil ($2 \times \frac{1}{2}$ in.) added to the hot liquid. Two c.c. of the special reagent (0.2 gram of dinitro-diphenylaminesulphoxide, $NH\left\langle\begin{matrix}C_6H_3NO_2\\C_6H_3NO_2\end{matrix}\right\rangle SO$, in 100 c.c. of decinormal sodium-hydrate solution) is then added and the solution boiled for one or two minutes, then diluted to 100 c.c. with water, and filtered at the pump. If tin is present during filtration the solution turns violet, the full depth of colour being attained by the addition of a drop of ferric-chloride solution. The process, after obtaining the sulphide, only takes a few minutes. The amount of tin present is found by comparison with a standard solution of tin chloride (containing 14.28 mgm. of tin per 100 grams or the equivalent of one grain per lb.). The colour, due to the formation of Lauth's violet, is not strictly proportional to the amount of tin present. One-tenth of a grain of tin per lb. gives an appreciable colour, while with over one grain it is advisable to take less than 10 grains of foodstuff or estimate the tin gravimetrically.

The appended table gives an abstract of the results of Dr. Schryver's examination of various canned foods :

Feodstuffs	Origin	Grains of tin per lb.
Bacon, sliced ...	U.S.A.	0.61
Beef essence ...	England (3 makers)	1.58–1.92
Beef extract ...	S. America (2 makers)	0.40–5.33
Curried rabbit ...	Australia	0.19
Fruits	London importer	0.33–1.03
Jams	England	1.42–2.81
	U.S.A. (tin pierced)	5.13
Lebsters	U.S.A.	2.39
Plum-pudding ...	England	Trace
Pork-pie	England	2.92
Roast fowl ...	England	0.58–1.44
Salmon	British Columbia	0.4–0.6
Tomato-soup ...	U.S.A.	3.5
Vegetables ...	Australia	1.51–2.19

Commenting upon the results, Dr. Buchanan states that meat extracts and essences, owing to their natural acidity, take up tin to a greater extent than other meat products. From the same cause canned fruits and vegetables are also specially liable to take up tin. The metal may penetrate into the substance of the solid food, which may come to contain relatively larger proportions of tin than the liquid. If solder gains access to the interior of the can, a very conspicuous solution of tin may take place. The results obtained by Dr. Schryver, from experiments on himself and animals, are briefly as follows :

> That there is no evidence of a cumulative action of tin until the daily dose exceeds 2 grains.
>
> That there is relatively small amount of absorption of tin from the alimentary tract.
>
> The experiments support in the main Lehmann's conclusions, that there is not much probability of serious risk of chronic poisoning from a diet consisting largely of canned foods and continued over considerable periods of time.

Dr. Buchanan states, however, that the presence of tin in a sample can in quantities approaching 2 grains to the pound may be taken to signify that the food has become potentially deleterious to health, and calls for the examination of further samples.

Provident Dispensaries.

Pharmacy touches on the Poor-law system at so many points that a considerable section of the craft is necessarily interested in the Report of the Royal Commission on the Poor-laws and the Relief of Distress, the issue of which, long delayed, may now be expected during the next few weeks. Some remarks made by the President of the Commission (Lord George Hamilton) at the annual meeting of the Ealing Cottage Hospital are of interest as showing which way the wind is likely to blow in one question touching the drug-trade. He said that

> more co-operation is needed between public authorities who provide medical treatment and the great voluntary organisations and hospitals which do much the same kind of work. There is a great deal of overlapping and not sufficient co-operation. His own idea is that they should try and develop contributory provident dispensaries. They should come to an arrangement with the medical profession as to the fee they would take, as the foundation of a staple and satisfactory system. They should establish a system on a very large scale of provident self-supporting dispensaries rather than hospitals and infirmaries where a certain proportion of the treatment must of necessity be gratuitous, and the wage-earning class should pay a reasonable proportion for the ordinary risk of sickness and ailment. At Ealing they are already working upon those lines, and are about to embark upon a new venture, associated with the development of which is, right from the foundation, a satisfactory and universal medical treatment for the poorer class.

One of the signs of the times is the steady growth of the belief in some quarters that the time is not far distant when the municipalities will be compelled to take over the larger voluntary hospitals, and a system of State-aided or rate-supported institutions will replace the existing charitable organisations. The average pharmacist usually fails to realise the enormous factor which hospitals represent as buyers in the drug-market, and the effects of any State-organised effort to increase the operations of provident dispensaries will not perhaps be immediately obvious to him. While this affects the medical profession more acutely, the proposal is one of considerable interest, if not of danger, to the individual chemist. It will of necessity mean that, in addition to the pauper class dependent on existing Poor-law hospitals, and in addition to the more or less needy class who rely for treatment and medicine on the voluntary hospitals, he is to be deprived of the direct custom of a considerable portion of the working-class population, which, in many industrial districts, is the backbone of his business. The report of the Commission will certainly need careful watching, and it may be necessary for pharmacy to take organised action to protect itself from loss arising from an unexpected quarter.

S.M.C. Delays.

The note in this column regarding the long-drawn-out delays of the Spectacle-makers' Company in sending out the diplomas of successful examination candidates has brought us a sheaf of complaints. Some of these are marked "private and confidential," but five other definite complaints we have investigated. In four instances, we are told, the diplomas have since been forwarded, and in the fifth case the document is to be sent off on Thursday. We shall be glad to inquire into any other cases, but correspondents should please note that to mark their letters "private and confidential" precludes us from effectively dealing with the complaints. It is obvious that the business organisation of the Spectacle-makers' Company is very defective, because not only is there delay in sending out dplomas, but replies cannot be obtained to inquiries about the examinations and other simple business matters. In

regard to this we are told that reforms are being introduced; but we have not yet obtained definite assurances that these have actually taken place.

Hop-substitutes Bill.

We learn upon excellent authority that it is the intention of the promoters of the Bill which is to prohibit the use of hop substitutes and to provide for the marking of foreign hops, to wait and see what attitude the Government propose to adopt towards the question in the ensuing Session before proceeding with their own measure as foreshadowed in recent issues of the *C. & D.* If the Chancellor of the Exchequer reintroduces the Bill of last Session no further steps will probably be taken from any other quarter. Great pressure is being put upon the Government from all sides, and, in the event of the Chancellor being unable to reintroduce the Bill, it is probable that a Bill will be introduced in the Upper Chamber by either Viscount Hardinge (Chairman of the Kent Branch of the Tariff Reform League) or Lord Addington, who initiated a debate in Parliament on this subject last Session. In the event of the Speech from the Throne at the opening of Parliament containing no reference to the reintroduction of a Hops Bill, it is the intention of Viscount Castlereagh, M.P., to move an amendment to the Address calling attention to the matter, and asking for the imposition of a forty-shilling duty on foreign imported hops.

International Atomic Weights for 1909.

The current issue of the "Proceedings" of the Chemical Society contains the annual report of the International Committee on Atomic Weights. As the table has been completely revised, it is of more than ordinary interest to everyone connected with chemistry. The revision was rendered necessary by alterations in the atomic weights of what may be termed the fundamental elements, resulting from extensive work which has been proceeding for some years past. The two most important elements from the point of view of calculating atomic weights are silver and chlorine, and the values of both these bodies have been amended. In 1906 the reduction of the atomic weight of silver was forecasted, and the value then indicated—107.88—has received confirmation during the past year by work done on the synthesis of hydrochloric acid. This work, taken in conjunction with a redetermination of the atomic weight of hydrogen, gives a value for chlorine in close agreement with that obtained from the preparation of silver chloride when the above-mentioned figure for this metal is employed. With these two weights thus established an almost complete revision of the table becomes necessary. Sulphur also has been altered, and on this element depend many atomic-weight calculations. Here, again, the work in 1908 has served to substantiate a figure arrived at in 1907. A point of interest in the report is the result of some recent work on tellurium. This metal, with its present official atomic weight, does not fall into place in the Periodic Classification, being heavier than iodine, whereas the properties of iodine indicate that it should occupy the position at present filled by tellurium. Marekwald's work gives tellurium a value which is in accordance with its apparently correct position in the classification, but is not in agreement with the figure obtained by most other investigators. The question is thus still unsettled, but these researches hold out hopes that something definite will shortly be reached on the subject. Another feature is the introduction of a new element found to be present in ytterbium; this discovery has resulted in the reduction of the atomic weight of this metal. We cannot, in view of recent events, pass over radium without mentioning that it has received attention chemically as well as medicinally, and it is gratifying to note that the latest researches only serve to confirm the determinations made by Madame Curie, who has been so closely connected with its discovery and investigation.

Rat-virus.

Dr. J. Danysz, in the "British Medical Journal" (January 23, p. 209), says it is incontestable that since the introduction of raticide viruses they have played a most important part in the campaign against these rodents, and it would be unscientific if, without sufficient reason, the free development of the new science and industry were prevented. He then goes on to explain how the bacillus of hog-cholera bore for many years an unjust reputation until Salmon's investigations showed it to be in reality only a concomitant in the disease of no importance; the real agent being a microbe invisible under the microscope and able to penetrate through a porcelain filter. The argument is therefore, May not similar circumstances obtain with raticide viruses? Many preserved meats have been found to contain microbes belonging to the *Salmonella* group (*B. enteritidis*). This group comprises two types, differing in several biochemical characteristics—Type I., of the bacillus of hog-cholera, Loeffler, and psittacosis, apparently identical with *Bacillus paratyphus* B, and Type II., of the bacilli of the viruses of Danysz, Issatschenko, Neumann, and Dunbar, which seem identical with the *Bacillus enteritidis* of Gaertner. In a recent investigation by Drs. Muehler, Dahm, and Fuerst, forty out of fifty-seven produced characteristic diseases on feeding white mice with them, which proved fatal in the majority of cases. The autopsy revealed microbes identical with *B. paratyphus* B and Danysz virus, but neither of these microbes could be traced in the meats themselves. It has been shown that microbes of the *Salmonella* group occur everywhere—in food and in the excreta of healthy persons; while some hundreds of litres of Danysz virus has been distributed weekly, without any special precaution on the part of the million or more people who have handled it, and no appreciable case of illness has resulted in man or among domestic animals. Dr. Danysz accordingly concludes that it would appear to be a justifiable supposition that if these microbes are found frequently in cases of poisoning through food, it is far from being proved that they are the active agents, but more probably the poisoning is due to ptomaines and the bacteria are only inoffensive concomitants, as in the case of hog-cholera.

What Does It Mean?

We have recently received from someone who does not give his name a handbill 5½ in. by 4½ in. with the following wording:

General Medical Council.

Pharmacy (Poison) Act, 1868.

As .....contains .....it must not be sold unless the purchaser is known to the seller, and registered in the Poison Book, and signed by the purchaser, also witnessed by a person known to the seller.

A Prescription or an Order written by a qualified Medical man, with name and address, will answer the purpose.

Any person selling Poison without registration is liable to a fine of Five Pounds.

What the General Medical Council has to do with the sale of poisons, we know not. It is also wrong to say that in selling a Part I. poison, a prescription or an order from a medical man relieves the seller of the entry in the poisons-book; the exemption applies solely to medicines dispensed, and some Part I. poisons are not sold for medicinal purposes. Can anyone throw light on the origin of the document?

Extending a Proprietary.

By Thomas Russell.

VII.—Extension-work.

THUS far we have been working for the home town chiefly, and using one local paper for our advertising. Of course, it is just possible we have chosen the wrong paper, and if results do not come immediately we may have to try the other papers. Assuming the right form of advertisement to have been struck first or last for one paper, it may or may not be worth while, according to the local newspaper situation, to put the same advertisement in the other paper. When we have done this we shall, so far as newspaper advertising goes, have got the home town trade sufficiently organised. Another form of advertisement—namely, by the distribution of pamphlets—can be tried at some stage of the proceedings, probably early : and later on in the present series some remarks will be offered on the writing and distribution of pamphlets. In the meantime, however, let us continue to discuss newspaper advertising and its extension.

One way in which the trade can be pushed beyond the home town offers itself, if the town is one where, in addition to the purely local papers, there is a newspaper—probably a daily—published in a larger town which covers the home town among others. By putting an advertisement into this paper (the expense will be greater per insertion than the cost of space in the home paper) we shall be advertising to people in other towns beside our own, but they will be neighbouring towns. Obviously, unless we make some arrangement for taking care of the trade created in adjacent towns by our advertising, we shall lose part of the result and waste part of the cost. The orders received by post will not suffice. We must get the goods on sale in each of the towns where the newspaper circulates.

The chemists of this town, if a decent profit is secured to them, will handle the article provided they are protected against loss. Simultaneously with the appearance of the advertisement they should be seen. It may be necessary to place goods with them on sale or return. This method is not in much favour with wholesale advertisers, who know very well that people are not going to push goods to please them. But there is a certain confraternity among chemists, which ought to be good for something, and some of the men seen may have specialities of their own which they are advertising, so that we can reciprocate any favours they may show. If we give credit, say, for three months, and guarantee the sale (that is to say, undertake to receive the goods back if they are not disposed of through our advertising), it ought not to be difficult to get the article on sale among the chemists of all the towns that are being covered. If we cannot get it on general sale it may be well to advertise the names of those local chemists who consent to handle the goods. But looking, as we must always look, to a large future, this should only be regarded as a temporary measure. Eventually we expect to have the goods on sale everywhere in the area covered by our advertising. In the interests of economy it is desirable not to extend the advertising beyond the ground on which we can ensure having the goods on sale.

It will be very desirable, whatever arrangements we make with our fellow-chemists, to have some sort of printed matter bearing the name and address of the retailer to whom it is given. A little neat handbill or folder for counter-use, with name and address as agent; or some pamphlets, if we have printed a pamphlet, will help the sale.

While establishing friendly relations with colleagues near home, it will probably not be very difficult to arrange that someone in the town keeps a lookout for likely testimonials, supposing that testimonials form a feature of the advertising. Testimonials are always much more effective in the town where their writers live; and testimonials are of little or no use unless they have a name and address, and are given with full permission to publish. Care should be taken to get this permission in black and white : otherwise there may be trouble.

The name and address should always be printed, but it is not always necessary to print the whole of the testimonial. Of course, no one would want to add anything, though he might give the testimonialiser a little assistance of an editorial character. On the other hand, there is no harm in omitting irrelevant sentences. As a general rule, however, except where one gets hold of a particularly wordy writer, the undoctored testimonial bears a certain aspect of sincerity about it which carries conviction.

Trade-marks Applied For.

Objections to the registration of any of the undermentioned applications should be lodged with Sir C. N. Dalton K.C.M.G., C.B., Comptroller-General of Patents, Designs, and Trade-marks, at the Patents Office, 25 Southampton Buildings, Chancery Lane, London, W.C., within one month of the dates mentioned. The objection must be stated on Trade-marks Form No. 7, cost £1, obtainable through any money-order office. The figures in parentheses refer to the classes applied for.

(*From the "Trade-marks Journal," February* 3, 1909.)

"TAROC"; for certain goods (1). By J. H. Cuff, 1 New Bridge, Dover. 305,085.

"B. M. & Co.," and lamp device; for manufacturing chemicals (1). By Brunner, Mussett & Co., 116 Fenchurch Street, London, E.C. 306,530.

"ASO ANKURI AROMIYO," and two label devices; for goods in eighteen classes (including 1, 45, 47, and 50). By The Lagos Stores, Ltd., 6 Stanley Street, Liverpool. 307,017-307,035, 307,055 to 307,073.

"CALCI-BLOCK"; for manufacturing chemicals (1). By Alfred Barnett, 27 Stoke Newington Road, London, N. 308,116.

"B. S. & Co., LTD., BULL DOG BRAND," and label device; for paints, colours, etc. (1). By Blundell, Spence & Co., Ltd., 9 Upper Thames Street, London, E.C. 308,369.

"LIXOL"; for fly-catchers (2). "TACHIT"; for cement (50). By J. N. Dean, 42 High Street, Stockport. 308,780, 308,782.

"BORLASE, FIELD & COMPANY, LIMITED," and label for veterinary preparations (2). device and lubricating materials (47). By Borlase, Field & Co., Ltd., St. Ervans Road, London, W. 307,364, 307,365.

"PARATOXINE," and label device; for a medicine (3). By F. L. Ducatte, 8 Place de la Madeleine, Paris. 303,320.

"A D N BRAND PETROLEUM JELLY," and label device; for medicinal petroleum jelly (3). By A. D. Newlands, 88 York Street, Glasgow. 307,710.

"VULNOPLAST"; for medicated dressings (3). By the Liverpool Lint Co., Netherfield Road North, Liverpool. 308,087.

"ANKH"; for medicines (3). By the Standard Tablet and Pill Co., Hove, Sussex. 308,784.

Fac-simile signature and photo, "JOHN SHAW, M.D.LOND"; for all goods (3). By John Shaw, 89 Farringdon Street, London, E.C. 309,050.

"ZEROBIA"; for all goods (3). By H. Williams & Co., 4 Upper Union Street, Dowlais. 309,054.

"PROPAESIN"; for medicinal chemicals (3). By F. Fritzsche & Co., 59 Muhlenkamp, Hamburg. 309,164

"TYRAMINE"; for medicinal chemicals (3). By Burroughs Wellcome & Co., Snow Hill Buildings, London, E.C. 309,250.

"TREXTA"; for medicinal chemicals (3). By Gale & Co., 15 Bouverie Street, London, E.C. 309,404.

"MINEX"; for photographic apparatus (8). By A. L. Adams, 24 Charing Cross Road, London, W.C. 308,771.

"EMPIRE"; for photographic apparatus (8). By W. Butcher & Sons, Ltd., Farringdon Avenue, London, E.C. 309,503.

"KOPIT"; for filtering apparatus (18). By Warwick Brookes, 350 Oxford Road, Manchester. 309,074.

"FINEGGROW"; for a food for animals (42). By S. J. Bell & Co., West Bilney, King's Lynn. 308,787.

"BENZYMES"; for food substances (42). By Benger's Food, Ltd., Strangeways, Manchester. 309,239.

"THREE B's," and label device; for all goods (44). By John Lyon & Co., Ltd. Oldham Street, Liverpool. 299,100.

"CRYSTOLINE"; for lubricating materials (47) and polishes (50). By the Stern Sonneborn Oil Co., Ltd., 16 Finsbury Square, London, E.C. 308,118, 308,196.

"COURT"; for soap (47). By Price's Patent Candle Co., Ltd., 31 Threadneedle Street, London, E.C. 309,399.

"VELVECINE"; for a toilet-preparation, but not including soap (48). By Velvecine Manufacturing Co., 18 Poulett Road, East Ham London, E. 306,491.

"SWASTIKA," and device; for brushes (50). By G. B. Kent & Sons, Ltd., 75 Farringdon Road, London, E.C. 308,258.

Chemical Society.

A MEETING was held at Burlington House, W., on Thursday, February 4, Sir William Ramsay, F.R.S. (President), in the chair. Among the visitors present was Dr. von Martius. There was a list of nearly thirty papers down for reading, and of these an unusually large proportion was read. Those only which possess some general or pharmaceutical interest are here dealt with.

NITRO-DERIVATIVES OF *o*-XYLENE,

by Dr. Crossley and Miss N. Renouf, was a contribution from the laboratories of the Pharmaceutical Society's school. It described the preparation, separation, and experimental orientation of all the possible mono-, di-, and tri-nitro-derivatives of *o*-xylene, and the clear and concise exposition of the results by Dr. Crossley drew from the President the remark that it was the neatest piece of work laid before the Society for many a day. The next paper was of a polemical character, and dealt with the determination of

THE RATE OF CHEMICAL CHANGE

by measurement of the gases evolved. The author, Mr. Lamplough, a short time ago criticised somewhat severely the results obtained by Dr. Cain and Mr. Nicoll in an investigation of the rate of decomposition of diazobenzene chloride, the rate being measured by the quantity of nitrogen evolved in a given time. Mr. Lamplough contends that the solutions in such cases become supersaturated with the gas formed and that, except under conditions of efficient stirring, the quantity of gas collected is not a true measure of the rate of chemical change. In a recent paper Dr. Cain and Mr. Nicoll replied to Mr. Lamplough and gave reasons for their belief that the supersaturation, if it occur at all, is very slight, and introduces no error. Mr. Lamplough has repeated his experiments and made new ones, and the results, he thinks, entitle him to adhere to his former position. In the discussion which ensued Dr. Veley, whose work was also criticised by the author on the same grounds, made one of his characteristic speeches, in the course of which he twitted the author with attributing to him work that he had never done, and promised to deal with his criticisms "in another place."

PROUT'S HYPOTHESIS REDIVIVUS

might be substituted for the title given by Mr. Egerton to his paper, which sought to explain the divergence of the atomic weights of the elements from whole numbers. The atomic weights of the first fifteen elements can be calculated by a simple formula, and of the next thirteen by a slight modification of the same formula. Both these involve a certain numerical constant, multiples of which must be added to a kind of fundamental atomic weight. Several explanations of this relation between the atomic weights may be given, but probably the most popular one will be that in which this constant is regarded as indicating the mass or some mass function of an electron, so that the element can be regarded as electron complexes, increasing in complexity as the atomic weight increases. Like most of the ingenious and far-reaching speculations contributed to chemical science in these days, this paper came from University College, and Sir William Ramsay, in commenting on it, said he thought it an epoch-making paper.

A paper by Drs. F. B. Power and C. W. Moore, of the Wellcome Chemical Research Laboratories, was also read on

THE CONSTITUENTS OF THE BARK OF PRUNUS SEROTINA.

Prunus serotina, Ehrhart, is indigenous to the greater part of North America, where it is known as the wild black cherry. The bark of this tree is used to a considerable extent medicinally. Although in its native country it is popularly termed "wild cherry"—the name assigned to it by the United States Pharmacopœia—the British Pharmacopœia has adopted the evidently incorrect appellation of "Virginian-prune bark." It has long been known that this bark, when brought in contact with water, develops benzaldehyde and hydrogen cyanide, and the origin of this phenomenon, together with other dubious points, led the authors to subject the bark to a complete chemical examination.

In the first place a determination was made of the amount of hydrogen cyanide yielded by the bark when macerated with water, and this was found to correspond to 0.075 per cent. of its weight. The complete investigation of the bark, for which purpose a large quantity of material was employed, has resulted in the isolation of a number of interesting substances, the most important of which, however, is the cyanogenetic compound. This has been obtained in a pure state, and its tetra-acetyl derivative has also been prepared. It is a handsomely crystalline substance, which has been completely characterised as *l*-mandelonitrile glucoside, $C_{14}H_{17}O_6N$ (melting-point, 145° to 147°; $[\alpha]_D$ -29.6°), and is identical with the compound first obtained by Emil Fischer in 1895 by the partial hydrolysis of amygdalin. The first observation of the occurrence of the *l*-mandelonitrile glucoside in nature was by Hérissey, in 1907, who obtained it from the twigs of *Prunus Padus*, Linné, and its isolation by the present authors from the bark of the botanically closely related *Prunus serotina*, Ehrhart, is the second instance in which it has been obtained from a natural source. It is accompanied in the bark by an enzyme which slowly hydrolyses β-glucosides.

In order to separate and identify the various constituents of the bark a large quantity of material was completely extracted with hot alcohol. A portion of this extract was subjected to distillation with steam, when small amounts of benzoic acid and an essential oil were obtained, but no hydrogen cyanide was developed, thus affording evidence that no hydrolysis of the cyanogenetic compound had taken place by this treatment. The distillation-flask then contained a dark-coloured aqueous liquid and a quantity of a green resin, which was separated and thoroughly washed with hot water. The aqueous liquid, on cooling and being allowed to stand for some time, deposited a further quantity of resinous material, designated as a brown resin, which was likewise separated and thoroughly washed with cold water. The two portions of resin and the aqueous liquid were then further examined. The green resin, amounting to about 1 per cent. of the weight of the bark, was extracted with various solvents, when it yielded a phytosterol, $C_{27}H_{46}O$ (melting-point, 135° to 136°; $[\alpha]_D$ -34.0°), palmitic, stearic, oleic, linolic, and *iso*-linolenic acids, and a little ipuranol, $C_{23}H_{38}O_2(OH)_2$. The last-named substance is a dihydric alcohol which, although obtained for the first time in these laboratories about two years ago from the stems of *Ipomœa purpurea*, Roth, appears to be widely distributed in nature, as it has since been found in olive-bark and in the nutmeg. After heating the green resin with dilute alcoholic sulphuric acid, a further quantity of oleic acid was obtained, together with dextrose and β-methylaesculetin, $C_{10}H_8O_4$. The last-mentioned substance is the fluorescent principle of the bark. Its aqueous solutions show a fine blue fluorescence, which is considerably intensified on the addition of alkali. The brown resin, previously referred to, likewise amounted to about 1 per cent. of the weight of the bark. When heated with dilute alcoholic sulphuric acid it yielded traces of a phytosterol, small amounts of β-methylaesculetin, and dextrose, together with a quantity of insoluble red resinous material. The aqueous liquid already mentioned represented that portion of the alcoholic extract of the bark which was soluble in water, and from which the resinous material had been completely removed. It contained the *l*-mandelonitrile glucoside, together with a quantity of sugar and tannin. On extracting the aqueous liquid with ether, benzoic, trimethylgallic, and *p*-cumaric acids were obtained. The isolation of trimethylgallic acid is of special interest, inasmuch as it is believed to be the first instance in which its occurrence in nature has been observed. After the above treatment a portion of the aqueous liquid was heated with dilute sulphuric acid, when it yielded small amounts of benzaldehyde, benzoic acid, and furfurol; and on subsequently extracting the liquid with ether, *l*-mandelic acid and β-methylaesculetin were obtained, the two latter compounds having evidently been formed by the hydrolysis of *l*-mandelonitrile glucoside and methylaesculin respectively. For the isolation of the cyanogenetic glucoside, which involved a detailed method of procedure, a separate portion of the original alcoholic extract of the bark was employed.

The paper was illustrated by a beautifully prepared set of specimens of the products isolated.

Pharmaceutical Society of Great Britain.

EVENING MEETING.

THE third evening meeting of the session took place at 17 Blomsbury Square, London, W.C., on February 9. The attendance was under fifty, and the only member of the Council present was Mr. E. White, who occupied the chair. Among those present were Messrs. C. T. Allen, C. T. Bennett, R. R. Bennett, J. O. Braithwaite, H. Deane, F. W. Gamble, H. T. C. Gardner, W. Garsed, F. Goldby, W. L. Howie, W. H. Lenton, Prior Robinson, P. A. W. Selfe, J. C. Shenstone, and W. J. U. Woolcock. The Chairman, having mentioned that both the President and Vice-President were unable to be present, called upon

Mr. W. A. H. Naylor, F.I.C., Ph.C., to read a paper by himself and Mr. E. J. Chappel on

The Estimation of Glycerin

in spirituous galenical preparations. The methods which are employed in simple solutions of glycerin are not applicable in cases where foreign matter is present, such as in the case of galenical preparations. The difficulty arises because of the fact that although glycerin is readily soluble in water, it is sparingly so in most of the common immiscible solvents. The boiling-point of glycerin is high, but it is appreciably volatile at much lower temperatures, and there are few derivatives suitable for its quantitative separation from the substances usually occurring in preparations of drugs. In the course of an investigation which had for its object the devising of a suitable process, the authors tried Linde's method for the estimation of glycerin in fluid extracts. In this method lead subacetate and phosphotungstic acid are employed to get rid of interfering substances, but the yield was too high even when the process was modified by increasing the amount of ether-alcohol employed for extracting the glycerin. Weiss's process employs lead subacetate for purifying the liquid, and, after filtering, a portion of the filtrate is treated with an acid solution of potassium mercuric iodide. An aliquot portion is filtered, treated with sulphuretted hydrogen, again filtered, concentrated, and filtered. An aliquot part is then converted into iso-propyl iodide in a Zeisel's apparatus and estimated with silver nitrate. The process is too tedious, and accuracy is sacrificed by having to take aliquot portions at so many stages of the proceedings. Some of the lime processes used in estimating glycerin in wine were tried, but were unsatisfactory, as were also attempts to estimate glycerin by difference.

Attention was then directed to a compound formed by the interaction of glycerin and litharge, but no selective organic solvent could be found for the compound. Next experiments were made in which glycerin was fixed with oxide of lead and weighed with the extractive. The results were too low. The following is the process finally adopted, which yields results that are sufficiently near the truth for practical purposes:

Five cubic centimetres or other convenient quantity, containing about 0.5 to 1 gram of glycerin, is diluted with 50 c.c. of distilled water, and aqueous solution of lead subacetate added until precipitation is complete, great excess of the reagent being avoided. If the solution be warmed on the water-bath for a short time the precipitate usually settles out readily, and the point at which precipitation no longer occurs on addition of the lead subacetate can readily be seen. The mixture is filtered at the filter-pump with the aid of a little kieselguhr, and the precipitate washed with three portions of 10 c.c. each of hot water. To the filtrate diluted sulphuric acid is added cautiously, until the lead is precipitated, care being taken to avoid more than a slight excess of the reagent. Solution of phosphotungstic acid is next added to the cold mixture until it no longer causes a precipitate, and the mixture again filtered as before, and the precipitate washed with three portions of 10 c.c. each of distilled water. The filtrate is concentrated to 10 to 15 c.c. and then rendered alkaline with sodium-hydrate solution, and carefully concentrated at a low temperature to 3 c.c. to 4 c.c.. Fifteen to twenty grams of copper sulphate (dried at 110° C.) is mixed with the cooled residue. The copper sulphate must be gradually added and precautions taken to prevent any great rise of temperature. After being powdered the mixture is transferred to an extraction-thimble, the open end of which is afterwards plugged with cotton wool (previously exhausted with acetone). The thimble is then placed in a Soxhlet extraction apparatus—the joints of which must be of ground glass—and extracted with dry acetone for seven or eight hours. The acetone is distilled off from the resulting solution, and the residue dried at 85° to 90° C.

Mr. Naylor explained the rationale of the process in detail and gave figures showing the degree of accuracy which is attained. The authors hope that further investigation will simplify the method and result in eliminating sources of error.

DISCUSSION.

The Chairman said the problem which the authors had tackled was one of old standing; it has appeared for years in the research list of the British Pharmaceutical Conference. The method proposed seemed to be a long one, but was doubtless the best that can be devised in the circumstances. He suggested that perhaps some comparatively insoluble glycerin compounds might be formed with substances belonging to the acetyl and benzyl groups.

Professor Greenish asked what was meant by dried acetone, his experience being that acetone retains small percentages of water very obstinately, and in such a condition exerts different solvent effects than when absolutely anhydrous.

Mr. Gardner inquired whether the process is applicable where only small amounts of glycerin are present.

Mr. Garsed wished to know whether the authors had taken care to employ anhydrous glycerin in making the preparations, as he noted that the glycerin obtained in the assay process was dried before weighing.

Mr. R. R. Bennett asked whether a process for oxidising glycerin to oxalic acid had been tried.

Mr. Naylor, in reply, said some experiments had been made with glycerin derivatives, but the difficulty is that in galenical preparations there are present so many interfering substances. It is necessary, for instance, to get rid of sugar, which may be present in one form or the other. The acetone was dried by means of anhydrous sodium sulphate or copper sulphate. The method is applicable to liquids containing small quantities of glycerin, but a larger quantity must be taken and the concentration carried out as mentioned in the paper. Allowance was made for water in the glycerin. It would seem at first sight that a simple process based on the oxidation of glycerin could easily be devised, but this is not possible on account of the various ingredients, some unknown, which are present The method which the authors have put forward is only in dispute in the case of alkaline solutions. The drawback to the lime processes is that the lime does not get rid of the interfering substances.

The authors were thanked for their paper.

A False Prunus Serotina.

Professor Greenish then read a paper by Mr. H. Finnemore (who arrived late) regarding a spurious *Prunus serotina* bark which had been supplied to Guy's Hospital dispensary. The bark is lighter in colour than the official bark and has a very astringent taste and fibrous fracture. It develops no benzaldehyde or hydrocyanic acid when moistened. The galenicals made from the bark are quite light in colour. The bark is somewhat similar to the false *Prunus serotina* described by the author in 1904 (*C. & D.*, March 12, 1904, p. 430). It was found to contain 6.9 per cent. of tannin-like substances.

Mr. E. M. Holmes, Curator of the Museum, followed with a paper in which he told how he had endeavoured to identify the specimen. This he has not succeeded in doing. By means of lantern-slides Mr. Holmes pointed out that the false bark in question differs from *Prunus serotina*, *P. pennsylvanica*, *P. Mahaleb*, and *P. avium*. It closely resembles the last named, and may possibly belong to the same group of *Prunus*.

The Chairman, noting that the word "serotina" was pronounced "serotína" and "serótina," asked which is correct.

Professor Greenish thought too much reliance should not be placed on the relative quantities of calcium oxalate and sclerenchymatous cells, the regularity of the bast-rays being a more reliable characteristic. Specimens of the various barks of the same age are needed before an exact comparison can be made.

Mr. Howie complained that the remarks made by the various speakers had not penetrated to the back of the lecture-theatre where he was sitting.

Mr. Finnemore said it was curious that he should come in contact with two spurious barks; they all seemed to come his way.

Mr. Holmes said perhaps the paper showed more than anything the important position occupied by the pharmacist. Here was a false bark which had passed the exporter, broker, and wholesale house, but was detected by the chemist. Mr. Holmes mentioned that in 1897 Miss Cooley, in the "American Journal of Pharmacy," proposed a test for distinguishing between spring and autumn gathered *Prunus serotina*, depending on the length of time it took for the formation of a greenish precipitate with ferric chloride. The spring bark is said to contain more tannin and less hydrocyanic acid than the autumn bark.

Mr. Finnemore added that the test was not trustworthy, and had not seriously been put forward.

Votes of thanks were given to the authors.

Refreshments were afterwards served in the examination-hall, where were exhibited samples of Penang nutmegs (recently presented to the museum) and specimens of a tonic bark used in Peru for malaria.

Pharmaceutical Society of Ireland.

COUNCIL-MEETING.

The Council met in the Society's house, 67 Lower Mount Street, Dublin, on Wednesday, February 3, at 3 p.m., Mr. John Smith (President) in the chair. The other members of the Council present were the Vice-President (Sir William Baxter), Messrs. Thomas Batt, George D. Beggs, Richard Blair, J. H. Bowden, W. Doig, C. P. Fairweather, H. V. Goldon, Wm. J. Hardy, W. Jamison, James, Michie, W. N. Moffitt, James Tate, Dr. James Walsh, Messrs. D. M. Watson and W. F. Wells.

Miscellaneous.

The President mentioned that the Council would at four o'clock receive a deputation representing the limited companies, who would place before the Council their views with respect to certain questions which had been in dispute between them connected with apprenticeship to limited companies, and also arising out of the Bill recently before Parliament. He regretted to have to refer to the death of Mr. Woodroffe, who had been for some years the Society's Examiner at the Preliminary examinations. Mr. Woodroffe was most efficient and painstaking, and a gentleman in every sense. He was always courteous to the candidates, and tried in every way to do his duty both to them and to the Society. He (the President) was sure that the members of the Council would join with him in expressing deep regret at the loss they had sustained by the death of Mr. Woodroffe, and he moved that a letter to that effect be transmitted to the deceased gentleman's widow.

A letter was read from the Editor of The Chemist and Druggist thanking the Council for the resolution which was passed in reference to him at their last meeting, and saying that it was gratifying to him to learn that he had done something to merit the thanks of the Council.

Letters were read from the Petty Sessions Clerks of Killashee (co. Longford) and Carrick-on-Suir, transmitting 18*s.* and 1*l.* 6*s.* 6*d.*, being two-thirds of reduced penalties for breaches of the Poisons Act.

The President said the Council had not yet been able to arrange for a deputation to the Lord-Lieutenant on the subject of these remissions of fines. His Excellency had been away for some time, and since his return he had been very busy.

Donations were received and acknowledged from the Director of the Missouri Botanical Garden of a copy of the Nineteenth Report of that institution, and from the British Pharmaceutical Conference of a copy of their "Year-book" for 1908.

The Preliminary Examination.

The President said that at the last Preliminary examination twenty-six candidates presented themselves, of whom only five passed. At a recent meeting of the Council the desire was expressed that he should request the examiners not to send up for consideration by the Council the cases of candidates whose marks were a few short of the number required for passing. He had asked the examiners whether the expression to them of that wish had had anything to do with the extraordinary number of failures in the present instance. The examiners, of whom the late Mr. Woodroffe was one, had assured him that it had not, and that there was not a single candidate whom they could have sent forward to the Council. He (the President) inspected some of the students' papers, and an examination of them had satisfied him that the examiners had no option but to stop those whom they did stop.

New Members.

On the motion of Mr. Goldon, seconded by Mr. Wells, Mr. John Black, of Lurgan, was elected a member of the Society; on the motion of Mr. Wells, seconded by Mr. Michie, Mr. Samuel Hooey, of Volksrust, Transvaal, was elected a member; and on the motion of Mr. Wells, seconded by Mr. Goldon, Mr. Michael Martin, of Ballinamore, co. Leitrim, was elected an associate druggist.

Interview with Company Representatives.

At the conclusion of the meeting of the Council the deputation from the limited companies was received. It consisted of Sir Thos. W. Robinson, Messrs. Samuel P. Boyd, M.A., J. H. Haslett, W. J. Busby, W. C. Dobbin, and Baker.

Mr. Boyd introduced the deputation, and read a letter of apology from Sir Stanley Harrington. The deputation laid their views before the Council, and asked the Council to join with them in approaching the Irish Government, with the view to promoting a new Pharmacy Bill requiring the Pharmaceutical Council to accept the declaration of service from limited companies. After the deputation withdrew, the Council considered the matter in committee; but, as there were several points on which they desired further information, it was decided to write to the Secretary of the associated companies, and the matter was then referred to the Law Committee to report to the next meeting of the Council.

Recent Wills.

The dates in parentheses refer to the issue of "The Chemist and Druggist" in which the deaths of the testators were reported.

Mr. Thomas Masters, 8 Hanley Road, Hornsey Rise, N., formerly with Messrs. S. Maw, Son & Sons, left estate valued at 345*l.* (*C. & D.*, January 16, p. 78.)

Mr. Owen William Jones, chemist and druggist, Flint, left estate valued at 1,132*l.* 10*s.* 6*d.* gross, of which 703*l.* 3*s.* 10*d.* is net personalty. (*C. & D.*, January 2, p. 12.)

The Late Mr. John Wallace Dent, chemist and druggist, Lowestoft, Suffolk, left estate of the gross value of 1,713*l.* 7*s.*, of which the net personalty has been sworn at 1,064*l.* 17*s.* (*C. & D.*, December 5, 1908, p. 856.)

Mr. George Croft, Great Grimsby, Lincs, chemist and druggist, left estate of the gross value of 4,403*l.* 10*s.* 8*d.*, of which the net personalty has been sworn at 2,055*l.* 10*s.* 10*d.* (*C. & D.*, November 7, 1908, p. 715.)

Mr. William Gilbert Taplin, 135 Wilberforce Road, Finsbury Park, N., chemist and druggist, late of Hampstead Road, London, N.W., left estate valued at 2,752*l.* 6*s.* 10*d.* gross, and at 2,723*l.* 13*s.* 4*d.* net. (*C. & D.*, January 9, p. 47.)

Mr. Charles White, of 45 Buckingham Palace Road, London, S.W., pharmaceutical chemist, who died on December 20 last, left estate valued at 3,777*l.* 2*s.* gross, and 3,746*l.* 3*s.* 6*d.* net. Probate of his will has been granted to his son, Mr. Charles Stewart White, of the same address, chemist, and Mr. Joseph Pollard, 51 Queen Anne Street, Cavendish Square, W., surgeon.

Mr. George Thomas Turner, dental surgeon and pharmaceutical chemist, Clifton, Bristol, formerly President of the Bristol Pharmaceutical Society, left estate of the gross value of 11,302*l.* 13*s.*, with net personalty 8,357*l.* 4*s.* 7*d.* The testator left 100*l.* each to his nephews William C. B. Turner and Herbert C. Turner, and he left his real estate at White Ladies Gate upon trust for his daughter, besides the residue of his estate after payment of specified legacies, including 50*l.* to his former porter, John Spray.

Adulterated Oil of Copaiba.

By Ernest J. Parry, B.Sc., F.I.C.

THERE is at the present time a great deal of so-called essential oil of copaiba on the market, guaranteed to be "B.P.," which on examination is found to be merely a mixture of oil of African copaiba and gurjun oil, mixed in such proportions as to pass the tests of the British Pharmacopœia. The oil has a specific gravity at 15° of 0.902, optical rotation (100-mm. tube) −14° 30′, and it is soluble in 95-per-cent. alcohol. It consists almost entirely of sesquiterpenes, but yields a well-marked reaction for gurjun oil: when 10 drops are dissolved in 20 grams of glacial acetic acid with 10 drops of nitric acid, a deep violet colour results. On fractionation, dextrorotatory fractions are obtained. On saturating an ethereal solution of the oil with dry hydrochloric acid no crystalline compounds are obtainable, but a deep violet-blue liquid compound results. The mixture has evidently been made so as to correspond with the figures given for oil of copaiba under Copaiba in the B.P.—that is, an optical rotation of the essential oil of −28° to −35°, which is for a 200-mm. column.

The Messina Disaster.

Messrs. Santi de Pasquale & Figli, Messina, shippers of the "Red Anchor" brand of lemon oil, write to their agents, the London Essence Co., of Camberwell, suggesting that a committee should be formed in London to ship to Sicily wood for the erection of huts and lodgings, which the people require more than food, clothes, or money. Almost every day since the calamity it has been raining, and people are still compelled to choose between going into the falling houses or sleep out in the cold and rain. On the suggestion of Mr. A. H. White, of the London Essence Co., the Lord Mayor is making representations on this subject to the Central Committee in Italy, so that probably a portion of the fund will be used for the erection of huts and wooden shelters. Messrs. Pasquale also send us a circular acknowledging many letters of sympathy. The two survivors of the firm are Silvestro and Aurelio de Pasquale, they having lost one brother, who was a partner; but with the exception of one child of Aurelio, the families of all three members of the firm, numbering sixteen, have perished. The survivors were dug out of the ruins and have only now recovered. The firm is located temporarily at Tremestieri, about five miles from Messina, and they would be very pleased to have a statement of account (in duplicate) from all their correspondents. As they are temporarily without financial means they ask that remittances be sent to their London bankers, Brown, Shipley & Co., Founders Court, Lothbury, E.C.—A similar letter to this has also been received by Mr. Whittaker, the firm's agent in Manchester.—Mr. Arthur G. Cailler, of A. G. Cailler & Co., of Messina, who left that city about thirty hours previous to the earthquake, and was in Paris, at once returned, and after much difficulty found that his mother, sister, and two brothers had perished, another brother being taken from the ruins alive. Subsequently Mr. Cailler left for New York, and, speaking to a representative of the "Oil, Paint, and Drug Reporter," said: "The warehouses in Messina were destroyed, and I learned that about 100,000 lb. of lemon oil, 30,000 lb. of orange oil, and 20,000 lb. of bergamot oil of the new crop had been stored in them, waiting early shipment. Practically the whole crop of orange had been distilled, but the production of lemon oil had been backward, much of the fruit having been left on the trees, the low market for oil having afforded little incentive to press the lemons. There are enough lemons left for the oil, and the factories along the coast from Messina to Catania are intact; but a grave problem will probably be experienced over labour, and there is likely to be great trouble also over the task of securing containers and packing. A good stock of old lemon oil had been carried over in Palermo. . . . I believe Messina will remain the principal port for shipment of Sicilian products, but it will require several months to restore anything like normal facilities there. In the meantime Catania, the nearest commercial centre, will handle a good part of the export trade. . . . All banking business has been suspended, and six months' extension has been granted on commercial paper."

JUBILEE OF THE "C. & D."

Our Summer Issue of July 31, 1909, will be the Jubilee number of the *C. & D.* Any readers who remember the publication of the first number in 1859 would oblige by communicating with the Editor.

Trade Report.

NOTICE TO BUYERS.—The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers stock the goods. Qualities of drugs and oils vary greatly, and higher prices are commanded by selected qualities even in bulk quantities. It would be unreasonable for retail buyers to expect to get small quantities at anything like the prices here quoted.

42 Cannon Street, London, E.C., February 11.

THERE are again few alterations to report in the drug and chemical markets, and although business shows an improving tendency in several directions, complaints as to dull trade are general. Quinine has been in more demand from makers at the reduced prices. Opium is quiet but the undertone is firm, and the statistical position appears good for an advance later. Morphine is firm. Prospects for the new Norwegian cod-liver oil remain promising, but the fishing is delayed by lack of bait and stormy weather at the moment. The Messina essences continue quiet, the future position being a matter of conjecture. South American petit-grain oil is higher. Copper sulphate and ammonia sulphate are easier. Shellac is also easier. The movements, including those of the drug auctions, have been as follows:

Higher	Firmer	Easier
Asafetida	Annatto	Ammonia sulphate
Gamboge	Cardamoms and seed	Benzoin (Sumatra)
Mace (W.I.)	Turpentine	Buchu
Petitgrain oil (Paraguay)		Copper sulphate
Wax, bees' (East Indian)		Lead salts

Cablegram.

New York, February 11:—Business in drugs is moderate. Opium is firm and unchanged at $4.37 per lb. for druggists' by single cases; jalap has declined to 25c. per lb.; balsam copaiba is 2c. higher at 50c. for Central and South American; Peru balsam is steady at last week's advance to $1.75; Canada balsam has advanced to $5.75 per gal.; cascara sagrada is steady at 8½c. per lb., and hydrastis (golden seal) is inactive at $1.80. Peppermint oil in tins is easy at $1.45 per lb.

Heavy Chemicals.

Business in the heavy-chemical market continues much of the same character as depicted in recent reports. Actual new business is on the quiet side, while deliveries against contracts are fairly satisfactory. Values rule steady without important fluctuations.

Sulphate of Ammonia.—This market is quiet, and since supplies offering appear to be somewhat fuller, last-quoted figures have scarcely been maintained. Practically nothing is doing in forward delivery. Present nearest figures: Beckton prompt and forward 11*l.* 17*s.* 6*d.*, Beckton terms 11*l.* 7*s.* 6*d.*, London 11*l.* 7*s.* 6*d.*, Leith 11*l.* 12*s.* 6*d.*, Liverpool 11*l.* 8*s.* 9*d.* to 11*l.* 10*s.*, and Hull 11*l.* 7*s.* 6*d.* to 11*l.* 8*s.* 9*d.*

Lead Products are a trifle irregular, and scarcely so firm as they were. White acetate of lead 23*l.* 15*s.* to 24*l.*, and brown acetate of lead 19*l.* 2*s.* 6*d.* to 19*l.* 7*s.* 6*d.* per ton. Nitrate of lead 23*l.* 5*s.* to 23*l.* 10*s.* per ton, and all less 2½ per cent. Glasgow. White lead 16*l.* 5*s.*, and red lead 15*l.* 10*s.* per ton, Tyne.

Barium Products continue to rule firm, and are in fair general demand. Mineral carbonate of barytes is fully sold for prompt, and consequently nothing available except against existing contracts. Nominal figures, subject to arrangement of delivery, 80 to 85 per cent. 62*s.* 6*d.* to 65*s.*, 88 to 90 per cent., 77*s.* 6*d.* to 82*s.* 6*d.*, and 92 to 94 per cent. 87*s.* 6*d.* to 92*s.* 6*d.*, all net per ton in bulk free on rails in quantities. Blanc fixe, pure precipitated sulphate of barytes in paste form 6*l.* 15*s.* to 7*l.* 10*s.* per ton in usual casks. Mineral sulphate of barytes 40*s.* to 100*s.* per ton, according to quality, quantity, and package. Chloride of barium ordinary refined crystals 7*l.* to 7*l.* 10*s.* per ton. Crude calcined sulphide of barium, 70 to 75 per cent., 5*l.* 5*s.* to 5*l.* 17*s.* 6*d.* per ton. Hydrate of barium, purest

crystals, 13*l.* 10*s.* to 14*l.* 10*s.* per ton in 6 to 7 cwt. casks, and fused concentrated barium hydrate, 56 to 60 per cent. BaO, solid in 5 to 6 cwt. drums, 13*l.* 15*s.* to 15*l.* per ton; crushed quality in special drums, about 3 cwt. each, 30*s.* per ton extra.

Manchester Chemical-market.

Manchester, February 9.

Interest in this district centres on the export returns during the past month, which are more satisfactory than the published reports of other trades would lead us to expect. The total of heavy chemicals, drugs, etc., is given as 1,317,322*l.*, as against 1,462,528*l.* in 1908. If there is any comfort to be drawn, it is from the fact that the imports of drugs, dyes, and colours is smaller than usual. Sulphate of copper continues to decline on the spot, and for prompt may be quoted 20*l.*, while for delivery forward, say April, 19*l.* 10*s.* would be accepted. Other chemicals are very dull and tend in buyers' favour, and the same may be said of coal-tar products.

Agar-Agar.—A cable to hand from Kobe this week states that "crop is short and poor in quality"; on the spot prices are firm, importers selling at 1*s.* 8½*d.* for No. 1 quality.

Aniseed.—Fifteen bags of Spanish sold in auction at 28*s.* per cwt. subject. Russian is firm at 19*s.* per cwt. on the spot.

Camphor quiet. China crude is quoted at 130*s.* spot, and to arrive at 130*s.* c.i.f. has been paid for February-March shipment. One-ounce Japanese tablets have been sold at 1*s.* 5¾*d.* on the spot, but 1*s.* 6½*d.* is now lowest.

Canary-seed maintains a steady tone, although little business is reported. For Turkish and clean River Plate 33*s.* to 34*s.* per quarter is asked, and 35*s.* for good Morocco.

Caraway-seed is steady at 41*s.* 6*d.* per cwt. on the spot for fair Dutch.

Cinchona.—The shipments from Java to Europe during January 1909 amounted to 1,021,000 Amst. lb. against 1,380,000 Amst. lb. for the same period of 1908. The stock in first hands at Amsterdam on February 4 amounted to 16,396 packages private bark and 5,528 packages Government bark, making a total of 21,924 packages, this including the 8,258 packages (or 695,313 kilos.) to be offered on February 25.

Cloves.—At auction 19 bales of Zanzibar were bought in at 5*d.* for dull. Privately the market is slow, the sales including January-March shipment at 4⅝*d.*, March-May at 4¾*d.*, c.i.f., d/w. Sellers of March-May delivery quote 4⅞*d.* and June-August at 5*d.*

Cocaine.—Quiet. Makers continue to quote 8*s.* per oz. usual terms for hydrochloride, and in second hands limited quantities are offered at about 7*s.* 4*d.* per oz. net.

Copper Sulphate is slightly easier, Liverpool make offering at 19*l.* 10*s.* to 19*l.* 15*s.* per ton for prompt, and 19*l.* 15*s.* for March-April delivery; on the spot 21*l.* is quoted for 98 to 99 per cent. pure.

Coriander-seed is slow of sale at 10*s.* to 10*s.* 6*d.* for common and 11*s.* to 11*s.* 6*d.* per cwt. for good Morocco.

Cumin-seed.—A fair quantity of Spanish and ordinary Malta has been sold lately at 40*s.* per cwt. The quotation for both good Morocco and Malta remains at 42*s.* 6*d.* to 45*s.* per cwt.

Fenugreek-seed.—Small sales are reported at 9*s.* to 9*s.* 6*d.* per cwt.

Galls.—Persian are quiet but firm at from 60*s.* to 65*s.* for blue, and for green up to 47*s.* 6*d.* has been paid on the spot.

Gambier.—Cubes are steady, with small sales at 34*s.*

Ginger.—At auction 24 cases of Calicut were bought in at 82*s.* for bold and at 72*s.* for medium cut. The sales of Japanese ginger include 10 tons at 28*s.* c.i.f. Liverpool for February-March shipment.

Gum Arabic.—Privately, supplies of Bushire so-called insoluble gum are small; fine sorts have been sold up to 17*s.*, selected amber at from 22*s.* 6*d.* to 23*s.*, and ordinary sorts at 13*s.* to 15*s.* per cwt. In auction two cases Trieste picked grains were held at 80*s.* Six serons of brown Barbary sold at 30*s.* per cwt.

Iron Sulphate remains firm at 52*s.* 6*d.* per ton spot.

Kino.—The stock of this drug in the January statistics was returned at 123 packages, but there appears to be a recent arrival of 70 packages which the docks have returned as "kino" in regard to which there exists a doubt. In the drug-auction 2 cases of good black Madras grain were offered and held at 9*d.* per lb.

Linseed.—Good qualities are unchanged at 47*s.* 6*d.* to 50*s.* per quarter.

Mace.—At auction West Indian was in good demand, 35 packages realising an advance of 1*d.* to 2*d.* per lb. for the best qualities. Fine sold at from 1*s.* 11*d.* to 2*s.* 1*d.*, good pale at 1*s.* 8*d.* to 1*s.* 9*d.*, fair at 1*s.* 6*d.* to 1*s.* 7*d.*, and ordinary at 1*s.* 4*d.* to 1*s.* 5*d.*

Oil, Anise, Star.—On the spot 4*s.* 5*d.* to 4*s.* 6*d.* is quoted, and 4*s.* 1½*d.* c.i.f.

Oil, Bergamot.—Prices for shipment vary from 17*s.* 6*d.* to 19*s.* 6*d.* c.i.f. terms, and at from 30*s.* to 35*s.* spot.

Oil, Cod-liver.—The general tone of this market is quiet at the moment, with prices practically unaltered at from 62*s.* to 63*s.* per barrel c.i.f. for new 1909 Lofoten oil for February-March shipment, and at 61*s.* for 1908 oil. Already sales of the new crop have been made at the former figures, and the possibilities are that, should the season be a normal one in regard to production, purchases at present prices will turn out well. Our Bergen correspondent writes on February 8 that the cod fishery has not made much progress during the past week, this being attributed to the fact that few fishermen have arrived at the scene of operations. The prevailing stormy weather and a general lack of bait at Lofoten has also obliged many fishermen to remain idle for several days. The prospects are, however, considered promising, as the condition of the cod as well as its liver is excellent, and by no means inferior to that of the past year's cod. The statistics, which appeared to-day, give the following results:

	1909	1908	1907
Catch of cod (millions)... ...	2.1	1.8	1.3
Yield of cod-liver oil (barrels)	1,780	2,150	1,370
Livers for "raw" oils (hl.) ...	1,800	1,500	1,400

On the market the tendency is still very quiet, perhaps with a somewhat weaker tendency; 1908 non-congealing Lofoten oil was lately sold at 60*s.* 6*d.* c.i.f. London; of new oil the supplies are still insignificant. The exports from Bergen up to date amount to 1,421 barrels, against 711 barrels at the corresponding date of last year. In the drug-auction 20 casks of Newfoundland oil were limited at 2*s.* 3*d.* per gal., and 8 barrels of 1908 crop Norwegian were bought in at 65*s.*

Oil, Lemon, is quiet and without substantial alteration, the previous quotations of 3*s.* 9*d.* to 4*s.* c.i.f. for February-March shipment being current, and on the spot good brands are obtainable at 5*s.* 6*d.* to 5*s.* 9*d.* per lb. To-day we hear business has been done at 3*s.* 6*d.* c.i.f. to arrive.

Oil, Mandarin.—Genuine is offered at 23*s.* per lb. f.o.b. Palermo.

Oil, Orange.—Sweet is quoted for February-March shipment at 9*s.* c.i.f., and at 9*s.* 4*d.* f.o.b. Palermo, according to brand; spot is quoted 10*s.* 6*d.* to 11*s.*

Oil, Peppermint.—American Wayne County tin-oil is firm but quiet at 6*s.* 3*d.* spot for good brands, *Todd's* being quoted at 7*s.* 9*d.* and H.G.H. at 8*s.* 11*d.* to 9*s.* as to quantity. Japanese (Kobayashi) is 4*s.* 9*d.* spot and (Suzuki) 4*s.* 8*d.* In auction three cases Todd's crystal white were limited at 8*s.* 6*d.*

Oil, Petitgrain.—Importers of Paraguayan are asking the higher prices of 8*s.* 9*d.* to 9*s.* per lb., but it is obtainable at less from second-hands.

Oil, Wood.—Slow of sale at 26*s.* to 27*s.* spot, and for shipment business has been done at 26*s.* 6*d.* c.i.f.

Opium.—The London market is quiet, with business only small, as the crop reports still vary considerably. Smyrna and Constantinople markets remain firm. Turkey druggists' on the spot is neglected at from 13*s.* 9*d.* to 14*s.* nominally, for good; small sales of fine selected Tokat have been made at from 15*s.* 9*d.* to 16*s.* 6*d.*; firsts (Malatia) at 14*s.* and seconds at 13*s.* per lb. Persian has met with small sales only, chiefly rich, at up to 15*s.* for over 11 per cent., and for 10.60 per cent. to 10.80 per cent. from 14*s.* 6*d.* to 14*s.* 9*d.* has been paid, and for 10 per cent. lots, business

has been done at from 13*s*. 9*d*. to 14*s*. 6*d*. per lb. The statistical position of opium is favourable for a further advance, and with the elimination of the few weak holders in Turkey it is anticipated that in a month or six weeks this advance will have taken place. A Smyrna correspondent writes on January 30 that the sales for the week amount to 72 cases for American account at from 122 to 125 pts., or 13*s*. 6*d*. to 13*s*. 9*d*. per lb. c.i.f. European ports. Further business in choice qualities is in prospect, and it is probable that prices for these grades will advance, while inferior qualities will remain weak. Market closes firm, and business is facilitated by the pressure brought to bear by the banks who hold the larger part of their stocks in the warehouses. The arrivals in Smyrna amount to 2,003 cases against 1,347 cases at the same period last year. Another correspondent, writing on January 29, states that the 72 cases sold above included old selected fine druggists' at from 13*s*. 6*d*. to 14*s*. 6*d*., and new selected at from 12*s*. 6*d*. to 13*s*. 8*d*. Weather has turned cold, and up-country severe frost is reported, in consequence of which the position has further strengthened, and it is anticipated higher rates will be established in February, especially if the U.S.A. demand continues. Constantinople has little stock, and the same applies to the interior. Another Smyrna correspondent, writing on January 30, states that during the past fortnight 160 cases were sold, of which 82 cases were on behalf of the syndicate, which confirms to a certain extent the report that crop conditions are good. True, there has been a slight advance, but as a result of the recent considerable buying on the part of consumers, native speculators would certainly have come forward had the prospects not been so favourable. The details of the sales and prices successively paid comprise 26 cases new prime Karahissar t.q. at from the equivalent of 11*s*. 7*d*. to 11*s*. 11*d*.; 52 cases extra ditto at from 12*s*. 6*d*. to 13*s*. 2*d*.; 55 cases old extra ditto (inspected) at 13*s*. 6*d*.; and 27 cases ditto at 13*s*. 6*d*. per lb. c.i.f. European ports. Market closes very firm with buyers. The probable price of 10-per-cent. opium is 30.75f. per kilo. c.i.f. A case of considerable importance to the opium trade will shortly be heard in the King's Bench Division of the Law Courts, action having been taken by several well-known London firms against a Constantinople house. Interlocutory proceedings have already taken place, and writs having been served, the plaintiffs suing for a refund of differences on alleged deficiencies of morphine in opium bought to arrive. The disputes are of long standing, it being understood that the London methods of sampling opium are involved. Last October we received a lengthy declaration from a Constantinople merchant impugning the manner in which opium was sampled in London, but on investigation we found that every precaution was taken to insure the average quality of each case being taken for analysis.

A report from Smyrna, dated December 31, states that the sales during the month amount to 218 cases, 168 of which for America and fifty for England and the Continent. The prices paid have not varied much from last month's quotations, which were from 12*s*. 3*d*. to 13*s*. for new druggists, 13*s*. 6*d*. to 14*s*. for old, and 14*s*. 6*d*. to 15*s*. for Yerli. The news from the Interior concerning the sowings is on the whole favourable. The arrivals to date amount to 2,003 cases, against 1,347 at same period last year, and in Constantinople 1,872, against 408 cases. The stock in Smyrna is about 2,153 cases, against 2,002 at same date last year, and in Constantinople 237, against 165 cases.

Pimento.—Quiet. At auction 250 bags were bought in at 2⅛*d*., and for February-March shipments sellers quote 19*s*. c.i.f.

Quinine.—There is rather more inquiry, and the makers have done business at 7½*d*. per oz. for German sulphate, and in outside brands 6¾*d*. has been paid.

Senega.—Quiet at 1*s*. 10*d*. c.i.f. to arrive and at 1*s*. 11*d*. net on the spot.

Soy.—The new method of calculating freight on this article, which came into vogue last month, involves an advance of about 10 per cent. in the cost of importations. Small spot sales of good thick have been made at 1*s*. 3½*d*. per gal. duty paid, but for shipment higher prices are asked.

Tragacanth is firm, but business has been restricted, the new arrivals per *Guildhall* having proved poorer in quality than anticipated. Bagdad firsts are quoted 16*l*. to 17*l*. 10*s*.; seconds, 14*l*. to 15*l*. 15*s*.; thirds, 12*l*. to 13*l*. 10*s*.; and fourths, 9*l*. to 11*l*. per cwt.

Turpentine.—American is firmer, closing at 30*s*. per cwt. on the spot.

Wax (Japanese) is easier at 52*s*. for good squares on the spot, and for arrival 44*s*. 6*d*. c.i.f. is quoted.

London Drug-auctions.

Quite a moderate quantity of drugs changed hands to-day, but prices, as a rule, were more or less in buyers' favour. Cape aloes were steady, and for new-crop Persian Gulf asafetida a substantial advance was paid. Annatto is firmer, and buchu is easier. With free arrivals of Sumatra benzoin importers are accepting easier prices. Cardamoms met a fair demand at full prices, seed being dearer. Ceylon coca-leaves were steady. Dragon's-blood quiet, but fine reboiled is now in reduced supply. Gamboge is about 10*s*. firmer after the recent decline, when some forty cases changed hands. Californian honey sold cheaply for set. Jamaica is scarce. Ipecacuanha is steady and myrrh is neglected. Rhubarb is quiet, and the offerings of sarsaparilla were uninteresting. Tinnevelly senna was fully steady, and East Indian beeswax was dearer, Madagascar being steady. The following table shows the quantity of goods offered and sold:

	Offered	Sold
Aconite (Ind.)	22	0
Alkanet	3	0
Aloes—		
Cape	73	57
Curaçao (bxs.)	38	11
(gourds) (Barb.)	40	10
Socotrine (kegs)	10	0
Ambergris	6	0
Ammoniacum	8	0
Anise, star	25	0
Aniseed	55	15
Annatto-seed	64	26
Antimony	110	0
Areca	54	*8
Asafetida	164	53
Balsam—		
Copaiba	10	0
Benzoin—		
Palembang	45	30
Siam	6	1
Sumatra	202	71
Buchu	33	19
Calumba	71	0
Camphor (Ch. cr.)	27	0
(Ceylon cr.)	2	0
powder	4	0
Canella alba	5	0
Cannabis indica	20	0
Cantharides (China)	15	0
Cardamoms	317	183
Cascara sagrada	200	0
Cascarilla	37	3
Coca-leaves—		
(Ceylon)	64	64
Cochineal	4	0
Colocynth-apple	5	5
Colocynth-pulp	21	0
Cuscus	19	0
Cuttlefish-bone	24	17
Dragon's-blood	16	0
Elemi	20	0
Ergot	14	2
Fennel-seed	46	20
Galangal	23	0
Galls	12	0
Gamboge	25	3
Gentian	10	0
Gum arabic	8	6
Honey—		
Calif.	166	50
Honolulu (cs.)	100	0
Jamaica	17	17
West Indian	2	0
Ipecacuanha—		
Cartagena	7	0
Matto Grosso	13	4
Minas	6	0
Kamala	5	0
Kino	6	0
Kola	8	6
Lime-juice	4	4
Mastich	2	0
Matico	9	0
Myrestine	50	0
Myrrh	53	9
Nux vomica	475	112
Oil—		
camphor	77	0
cinnamon	22	0
cod-liver (Newf.)	20	0
(Norw.)	8	0
eucalypt.	20	0
gurjun	40	0
lemongrass	16	0
lime	10	0
peppermint	8	0
pimento	2	0
Olibanum	52	0
Opium	4	0
Orange-peel	48	12
Orris	32	0
Papain	2	0
Patchouli	42	0
Pareira brava	42	0
Plumbago	75	0
Rhatany	2	0
Rhubarb (China)	92	4
Sandarac	8	0
Sarsaparilla—		
Hond.-Guat. (mixed)	42	1
Native	10	3
Scopolia (Jap.)	10	0
Seedlac	134	0
Senna—		
Alex.	137	0
Tinnevelly	495	495
Smilax	1	0
Squill	9	0
Sticklac	54	10
Strophanthus	1	1
Tamarinds	32	0
Tonka-beans	2	0
Tragacanth	9	0
Turmeric	240	0
Turmeric-powder	5	5
Wax (bees')—		
Abyssinian	13	13
Australian	2	*2
Cape	2	0
China	8	0
East African	16	16
East Indian	50	35
Jamaica	13	4
Madagascar	171	87
Mombasa	98	0
Morocco	17	0
Spanish	13	0
West Indian	2	2
Wax (veg.)	15	0

* Sold privately.

Aloes.—A parcel of 40 gourds Barbados was offered, ten of which were disposed of at 70*s*. for good liver in extra

large size gourds; five boxes of Curaçao sold at 50*s.* for good livery, and for six boxes of fair bright capey 32*s.* 6*d.* was paid. Rather soft Socotrine in kegs was held at 90*s.* Cape aloes was about steady, the following prices being paid for 53 cases Mossel Bay on 20 per cent. tares: Good bright hard firsts, 30*s.* to 31*s.*; good seconds, 29*s.*; drossy seconds, partly mixed with dirt, 28*s.*; and common drossy, 26*s.* 6*d.* per cwt.; Algoa Bay (estimated tares), fair bright hard, 27*s* to 28*s.*; ordinary dull and drossy, 26*s.* 6*d.*; common cindery, 25*s.* 6*d.* to 26*s.*

Annatto-seed.—Eighteen bags of dull Ceylon, containing an admixture of cocoa-nibs, small stones, chips of wood, etc., sold at 1½*d.*, and 8 bags of fair Madras had been sold privately; 18 bags of dull Ceylon were bought in at 5*d.* per lb.

Antimony.—Eighty cases of crude were bought in at 16*l.* 10*s.* per ton, no response being made to a suggestion of 15*l.*

Areca.—For 24 bags of fair sound Ceylon a bid of 10*s.* is to be submitted, 13*s.* being the limit.

Asafetida.—Dearer. One hundred and sixty-four packages were offered to-day, 64 of which were of new season's crop, the balance being chiefly of a low, common, stony grade. The whole of the new crop sold with good competition, chiefly for U.S.A., at an irregular advance of 10*s.* per cwt., up to 90*s.* per cwt. being paid for fair brown almondy loose; 80*s.* to 86*s.* for the same, but more blocky; 70*s.* to 77*s.* 6*d.* for dark and rather heavy made-up gum; and 55*s.* to 65*s.* for heavy brown broken block with some loose gum. Common dark block realised 40*s.*, the common stony being withdrawn.

Balsam Copaiba.—A parcel of ten cases guaranteed B.P. according to Parry's analysis was offered, and a bid of 2*s.* is to be submitted.

Benzoin.—Easier. Sumatra was in active demand, eighteen cases of good fair almondy Sumatra seconds selling at 7*l.* Twelve cases of fair seconds, with small to bold almonds, false packed ends, sold at 6*l.* 5*s.*, and a string of 40 cases of similar quality realised 6*l.* Bids for various other parcels of Sumatra are to be submitted, and privately sales of good have been made at 8*l.* 2*s.* 6*d.* Thirty cases of common barky Palembang seconds sold at 39*s.* subject, and a case of blocky and slightly drossy pea size Siam sold without reserve at 19*l.* per cwt. For two cases of fine bold free Siam well-flavoured almonds 25*l.* 5*s.* per cwt. was refused, the buying-in price being 27*l.*, and two cases of small to medium almonds were bought in at 21*l.*

Buchu sold at slightly easier prices, good green round leaf realising 9*d.* to 9½*d.*; fair, 8½*d.*; and for one bale of bronzy "longs" 5½*d.* was paid.

Cannabis Indica sells slowly, the genuine Bombay being held for 4*s.* 7*d.*, and of East African nothing is now obtainable under 6*d.* per lb.

Cardamoms were in fair demand at fully previous prices to 1*d.* advance, the following rates being paid: Ceylon-Mysores, extra bold fine pale, 2*s.* 8*d.* to 2*s.* 10*d.*; medium to bold fine pale, 2*s.* 6*d.*; good bold and medium palish to pale, 2*s.* 3*d.* to 2*s.* 6*d.*; bold medium palish to pale, 2*s.* to 2*s.* 2*d.*; small and medium palish to pale, 1*s.* 9*d.* to 1*s.* 11*d.*; small pale, 1*s.* 6*d.* to 1*s.* 8*d.*; brown split and pickings, 1*s.* 6*d.*; good splits, 1*s.* 7*d.*; Ceylon-Malabar, small brown, 1*s.* 5*d* ; Native, medium to bold heavy (two cases), 1*s.* 9*d.*; decorticated seed, 1*s.* 11*d.* to 2*s.* Five cases pale seed were sold prior to the sale, and 23 cases of small to medium *green* cardamoms sold at 1*s.* 6*d.*

Coca Leaves.—Sixty-four cases Ceylon-Huranuco sold at from 8*d.* for middling brownish to 9*d.* to 9¼*d.* for fair greenish, with one lot at 9½*d.* per lb.

Colocynth.—Five cases of small to medium common seedy Spanish apple sold at 2¾*d.*, and of 11 bales of pulp offered three sold at from 3½*d.* to 4*d.* per lb. for sweepings and partly sea-damaged; ten bales of Turkey pulp were limited at 6½*d.* per lb.

Cuttle-fish Bone.—Seven packages *via* Port Said sold at 2*d.* per lb. subject for fair palish to dull broken bone.

Dragon's-blood.—Practically all the fine reboiled Singapore lump has been cleared off the market. In auction five cases of fair quality were bought in at from 11*l.* to 11*l.* 10*s.*, a bid of 9*l.* 12*s.* 6*d.* being refused.

Ergot.—Two bags of sifted Spanish sold at 1*s.* 4*d.* per lb., being steady.

Fennel-seed.—A parcel of 46 bags from Busreh, consisting of good green well-harvested seed, was offered and partly sold at 18*s.* per cwt.

Gamboge.—Firmer. A fair quantity of Siam pipe (some 40 cases) has changed hands recently at up to 14*l.*, and the stock is now becoming low again. In auction 3 cases sold at rather firmer rates, 14*l.* 10*s.* being paid for good bright Siam, slightly blocky; 13*l.* 10*s.* was refused for another lot of fair, but very blocky, 14*l.* being wanted.

Honey.—Fifty cases of good water-white set Californian sold cheaply at 34*s.* Thirteen packages fair palish red liquid Jamaica sold at 24*s.* to 26*s.*, and for four barrels pale brown set 25*s* to 26*s.* was paid.

Ipecacuanha.—The stocks at the Crutched Friars warehouse on February 8 consisted of 105 Matto Grosso, 33 Minas, 43 Cartagena, and four of "Johore"; the stock of the latter in the January drug-statistics was returned in error at 20 packages. In auction, prices were steady, 4 bales Matto Grosso realising 5*s.* 2*d.* to 5*s.* 3*d.* for good bright root. Cultivated Minas was held at 5*s.* and Cartagena at 4*s.* 3*d.*

Kola.—Six bags of slightly mouldy and dark West Indian sold at 1½*d.* per lb.

Lime-juice.—For four hogsheads of palish raw Jamaica 1*s.* 1*d.* per gall. was paid.

Myrrh.—Quiet. Nine casks of ordinary Somaliland sorts sold at from 50*s.* to 52*s.* per cwt. without reserve.

Nux Vomica.—A parcel of 112 bags sold at 8*s.* 6*d.* per cwt. for medium and bold darkish silky from Colombo.

Oil, Eucalyptus.—Twenty cases of B.P. oil were bought in at from 1*s.* 1*d.* to 1*s.* 2*d.* per lb.

Olibanum.—Five cases of good pale drop sold at 46*s.*, and for 20 barrels of ordinary small drop a bid of 25*s.* is to be submitted.

Orange-peel.—The new crop is available at low prices, good Tripoli strip selling at 7*d.* and fair palish at 5*d.* to 5¼*d.* per lb

Orris.—Good pale selected Florentine was bought in at 39*s.*, and for fair sorts 29*s.* was wanted.

Papain.—A case of small pale brown flake was held at 9*s.* per lb.

Pareira Brava.—A bid of 10*s.* is to be submitted to the owner of 42 bags, part fair, part dark logs.

Rhubarb.—Quiet. A single case of bold round Canton, with half-pinky and half-grey and dark fracture, sold at 1*s.* 3*d.*, and for three cases of medium ditto a bid of 1*s.* 2*d.* is to be submitted. A case of medium round horny High-dried with three-quarter fair pinky colour sold at 5½*d.*, and a further three cases of this description were held for 5*d.*, the fracture being one-third fair and two-thirds dark and grey. Bold round Shensi was bought in at 2*s.* 6*d.* and flat at 2*s.* 4*d.*, no sales being effected publicly. Canton rhubarb is scarce at the moment, very little being offered to-day.

Sandarac.—Eight casks fair pale Morocco were limited at 69*s.*

Sarsaparilla.—In auction to-day no grey Jamaica or Lima-Jamaica was offered. Forty-two bales of Honduras and Guatemala mixed, but nicely rolled, were offered and bought in at 1*s.* 3*d.*, the highest bid being 11*d.*; a bale of Lima character from this parcel sold at 1*s.* 3*d.* Five bales of Native-Jamaica were bought in at 1*s.* for dull red, and 2 bales shown at a previous auction sold at 1*s.* 1*d.* The *Tagus* has brought 45 packages sarsaparilla from Panama.

Seedlac.—Fair bright Karachi was held at 5*l.*, at which sales have been made privately.

Senna.—The bulk of the offerings of Tinnevelly leaf consisted of common small and medium specky quality, which sold at from 1¼*d.* to 1½*d.*, and 2*d.* to 2¾*d.* for ordinary small to middling greenish leaf. A few odd bales of good medium greenish realised 3¾*d.* to 4½*d.* per lb. *Pods.*—3*d.* to 3½*d.* Alexandrian was neglected; fair leaf was held at 8½*d.*, broken leaf at 2¾*d.* to 3*d.*, and pods at 7½*d.* to 8*d.* per lb.

Sticklac.—Ten cases of clean free Karachi sold at 50*s.* subject.

Tonka Beans.—Two casks of good bold frosted Angostura were bought in at 5*s*. 6*d*. per lb.

Turmeric Powder.—Five bags sold at 10*s*. per cwt. if pay charges.

Wax, Bees, in demand. Jamaica sold at steady prices, 7*l*. 12*s*. 6*d*. per cwt. being for three packages of fair, and two packages Grenada realised 7*l*. Thirty-five cases unbleached Calcutta sold at 6*l*. 5*s*., being 5*s*. dearer. Of Madagascar wax 171 packages offered and 60 mats sold at 6*l*. 12*s*. 6*d*. for fair brown block being steady. Thirteen bags of ordinary Abyssinian block sold at 6*l*. 12*s*. 6*d*. per cwt., and sixteen bags of fair part dark East African were disposed of at 6*l*. 10*s*. per cwt. Good bleached Calcutta was held for 7*l*. 15*s*., 98 bags of Mombasa were bought in, and for 13 bales yellow Spanish 6*l*. 5*s*. was wanted.

Continental Chemical and Drug Markets.

Antimony.—Crude appears to be steadier in Hamburg. Some parcels afloat were dealt with at 14*l*. 15*s*. per ton c.i.f. Hamburg.

Carnauba Wax.—Market conditions in Hamburg have recently changed considerably, this being attributable to the news of higher quotations from Brazil. The demand was especially active for spot goods, the following prices being asked: Sandy grey 185m., fatty grey 210m. Stocks in the hands of Hamburg importers have meanwhile diminished, and they probably do not hold more than 1,500 sacks.

Lignaloe Oil.—Values, which rose suddenly after the Messina catastrope, are now easier at 25m. per 1 kilo.

Lycopodium is little sought after, stocks are increasing, and the demand from America has fallen away. Offers from Russia are more frequent, though never going below 295m. to 300m. per 100 kilos.

Menthol is steady at 16.50m. per kilo. in cases.

Salmiak.—There has been little alteration in the prices recently; the demand is somewhat weak at the moment, but an improvement is anticipated with the spring.

Wax (Japan) has declined to 87.50m. per 100 kilos. net c.i.f., but consumption at the moment is extremely limited.

Calabar Beans.—Prices have risen, as next to no supplies have come on to the Hamburg market, and in second-hands a very limited quantity is now being sold at 1.30m. per kilo. Should the demand increase a rise to 1.50m. and more is anticipated.

Citric Acid.—The Hamburg market is quiet, and spot goods are offered for the first half of 1909 at 3m. per kilo.

Ergot has attracted more attention in Hamburg and prices have suddenly risen lately, owing to the lack of offers from Russia and the scarcity of those from Spain. Sound Russian is quoted at 310m. per 100 kilos., and good Spanish at 300m. ex warehouse, Hamburg.

Senega.—Stocks are small in Hamburg, and 4.20m. is asked from second-hands; America is asking for 4.25m. for prompt shipment.

Strophanthus.

The current "Bulletin" of the Imperial Institute prints a short *résumé* of the information available regarding strophanthus-seed, which describes the characteristics of *S. Kombé*, giving the test which is relied upon for distinguishing *S. Kombé* from those of other varieties. Since 1903 practically the whole of the supply has been exported by the African Lakes Corporation, Ltd. In that year the corporation sent out a competent botanist to Nyasaland to instruct the natives how to distinguish *S. Kombé* from the other species, and to impress upon those interested the necessity of gathering that variety only. At first, by the advice of Mr. E. M. Holmes, F.L.S., the seeds were exported in pods to ensure authenticity, but now they are taken from the pod and freed from the awns; they are then packed in bales and sent down to Quilimane, Chinde, or other Portuguese East African ports, whence they are shipped to London. Exports of strophanthus from Nyasaland for the four years 1904-7 are as follows: 1904, 10,178 lb. (2,544*l*.); 1905, 32,878 lb. (8,219*l*.); 1906, 31,477 lb. (3,935*l*.); and 1907, 29,394 lb. (3,674*l*.).

Mr. C. F. Emery, of the Chesebrough Co., was on the *Baltic* when she rescued the passengers and crews of the *Republic* and *Florida*.

The following educational institutions are advertising in this issue:

Muter's (South London) School of Pharmacy, 325 Kennington Road, London, S.E.

London College of Chemistry, 323 Clapham Road, London, S.W.

Liverpool School of Pharmacy, 18 Colquitt Street, Liverpool.

Bath and West of England School of Pharmacy, Cleveland Place, Bath.

Correspondence

TO CORRESPONDENTS.—A letter for publication should always be a distinct communication; nothing else should be mixed up with it. Each query—no matter whether legal, dispensing, or general—should stand by itself, and the paper upon which it is written should always be backed with the shop stamp. We do not undertake to reply to queries by post. Write clearly and concisely on one side of the paper only. All communications should be accompanied by the names and addresses of the writers. Publication of letters does not imply our agreement with them. Letters received after Wednesday morning cannot as a rule be dealt with in the current week's issue.

BUSINESS INFORMATION.—We supply by post (when a stamped and addressed envelope is provided) information as to the makers or agents for articles connected with pharmacy and the chemical and drug trades. Inquiries regarding any articles which cannot be traced are inserted under "Information Wanted."

Pharmaceutical Affairs in Ireland.

Sir,—In reference to letter from Mr. John Smith, Dublin, in your last issue, I wish to point out that I did not necessarily refer to certificates from limited companies. I take it that the same arrangements which apply to limited companies are equally applicable to unlimited companies or private partnerships where the conditions are similar—*i.e.*, where, say, only one partner is qualified but where the service of the apprentice or assistant is to the firm and not to an individual. If certificates are to be received from individuals representing private firms, why are they to be refused from individuals representing limited companies? Yours faithfully,

Belfast, February 9. W. J. Busby.

Sir,—I notice in last week's issue of your journal that my remarks made at the Pharmaceutical Council-meeting in Dublin last month have given some members of the committee of the Chemists and Druggists' Society grave dissatisfaction. I wish to say that what I said was the expression of my own opinion, and I never for one moment imagined that they thought I represented them. I agree with Mr. William Haslett, of Ballynafeigh, when he says that I was "not nominated to the Council by the members of the Chemists and Druggists' Society" for the very good reason that they cannot nominate to the Council of a body of which they are not members. The Pharmaceutical Society of Ireland consists of chemists who pay the annual subscription and associate druggists who do the same, and only about six of the latter reside in or near Belfast, and even these few do not all hold the opinions of the gentlemen who drafted the resolution. For the benefit of the uninitiated, I may state that there are thirty-eight associate druggists in Ireland entitled to vote at the election, in conjunction with the pharmaceutical chemists who are members of the Society, and these only have any say in the affairs of the Society; but the interests of the 660 registered druggists outside the Society are not neglected, as is proved by the Council opposing the clause in the Pharmacy Bill allowing unregistered men to trade in poisons. Yours respectfully,

Belfast, February 9. William Doig.

The "Territorial" Plan for Chemists.

Sir,—The reference of Major Freeman to civil hospitals not putting dispensers on their staff is, in my experience, incorrect. Some years ago, when a new ward of one of the leading London hospitals was opened by the late Queen Victoria, I and my *confrères*, as dispensers, were made stewards with the medicals. The resident dispenser also always had a seat at the dinner-table of the medicals. The dispensary was a distinct department, having its head dispenser, and was only subordinate to the house governor and committee. These facts ought fully to confirm your footnote to Major Freeman's letter. Yours truly,

Gillingham, February 6. A. Stooke.

Importance of Reading the "C. & D."

Sir,—I feel I must write to say how pleased I am that my letter inserted in your columns on January 9 was the means of those two scamps (who buy soap) being arrested at Ipswich. Before going farther they fleeced no end of people round about here. They visited chemists and tobacconists chiefly, as far as I can gather, and met with success in Leyton, Leyonstone, Forest Gate, Manor Park, and Walthamstow. I am afraid some chemists do not carefully read your correspondence column, otherwise so many would not have been "done" after the publication of my letter.

Faithfully yours,

Stratford, E., February 9. J. E. Eastman.

Proprietaries for Australia.

Sir,—Our headquarters in Australia have experienced a great amount of inconvenience and have been put to a deal of expense through manufacturers and suppliers of patent medicines using statements on the labels and wrappers of their goods of an extravagant and untrue nature, many of them claiming absurd cures that cannot be substantiated. The following is an example:

Commerce Act.

Port Adelaide, December 23, 1908.

Dear Sir,—I beg to inform you that it has been reported that a consignment of —— pills imported by you ex *Mongolia* were accompanied by wrappers which contained extravagant statements as to the curative properties of the goods. In this instance delivery was allowed, but you are warned that future importations of these pills will require to be correctly marked.

I have the honour to be, Gentlemen,

Your obedient Servant,

(Signed) Acting Collector of Customs.

This ruling practically resolves itself into this, that no manufacturer may say that his remedy is a positive cure for anything or make exaggerated statements regarding his remedy, and that patent-medicine proprietors must confine their statements to facts, and also make the declaration required by the Customs authorities.

Yours faithfully,

F. H. Faulding & Co.

54 Great Tower Street, E.C., February 8.

[It would be interesting to know what law the Acting Collector of Customs at Adelaide thinks he is carrying into effect. Amendments to the Commerce Act, 1908, have been proposed to give authority to such conduct as his, but until such amendments are enacted Colonial importers should resist such officialism as the above letter refers to.—Editor *C. & D.*]

Support of Mr. Lord's Views.

Sir,—I am quite sure there are a number of chemists who agree with Mr. John E. Lord's letter in *C. & D.* of January 16. I have wondered many times what benefits I get for my subscription to the Society, and cannot find any. The journal, more often than not, I do not open, as I find the *C. & D.* much more interesting, and it contains all that one wants. We are hampered in every direction, and I have made up my mind to give up my membership and save my guinea. In addition to what Mr. Lord says, I am disgusted to know that two at least of the Pharmaceutical Council carry on a petty wholesale with small shopkeepers, grocers, etc., and also to learn from our local Excise officer (when I called his attention to the number of small shops, grocers, co-ops., etc., who were selling sweet nitre and spirituous preparations illegally) that "he could only warn them: the Inland Revenue authorities would not prosecute small traders, as it was not worth their while to do so, and it was no use him making a case." According to the officer they will not prosecute because they do not consider them worth powder and shot. I don't like the new Act, and the guinea will go towards any loss of sales of sheep-dip, etc., and that incurred by grocers selling so many of our preparations. The increase in membership of the Society, noted in your last issue, I expect will be due to those employed by stores becoming members, but I cannot think many retail chemists can have joined.

Yours faithfully,

February 9. East Lancashire. (206/6.)

Sufficient Skill, etc.

Sir,—I note the remarks in your editorial, practically to the effect that Army dispensers' and apothecaries' assistants' chances of registration as chemists are *nil*. I would suggest the following scheme, which I think would be fair all round, and at the same time would form a body of qualified chemist assistants and add to the funds of the Pharmaceutical Society. Apothecaries' assistants to be registered as (what they are) dispensers or chemist assistants on payment of a fee of 3*l.* 3*s.*, providing they have served a regular apprenticeship or been engaged in the retail chemist's business for five years, and admitted associates of the Pharmaceutical Society on payment of an annual subscription of 1*l.* 1*s.* This registration as dispensers to entitle them to act in the absence of their principal in selling and dispensing of poisons, and to entitle them to practise (if they wish) on their own account as dispensers (not chemists or pharmacists) for dispensing medical prescriptions and retailing. No poisons except such as are contained in a packed proprietary article (*e.g.*, Browne's chlorodyne and Kay's essence). Allow him to sell so-called patents which contain poison, but not to retail poisons loose, such as white precipitate, and only allow him to practise on his own for so long as he remains an associate of the Pharmaceutical Society. This seems to me just all round. There are several apothecaries' assistants who have spent all their lives in the retail, and their certificate is good enough for a hospital, then why not in a chemist's shop? The above system would form a body of men who would take an interest in the Pharmaceutical Society and pharmaceutical affairs.

Faithfully yours,

X. Y. Z. (202/63.)

Persons Holding Colonial and other Certificates.

Sir,—I notice in your issue of the *C. & D.* of February 6 a long contribution as to the probabilities and possibilities of the above being received by the Pharmaceutical Council. I should like, with your permission, to mention a few plausible personages who may apply for the new privilege and honour. Sir William Collins must be considered to have achieved and accomplished a concession in this Bill to certificated dispensers of the Apothecaries' Society worthily and admirably, and by those persons whom it may concern let him be praised and held in the repository of their memory. Take, for instance, an Army dispenser fifty years of age, or a certificated dispenser (Apothecaries' Hall). He has had thirty years' experience in practical work. He may have passed an examination at some recognised school or college equal to any Preliminary required. He may have a certificate in chemistry or pharmacy, or both, from a genuine source, in addition to his Army or Apothecaries' Hall certificate. He may also produce numerous testimonials from his employers certifying to his ability and aptitude in his profession; these (the Army man and the Hall man and Colonial Veteran) are the plausible persons I refer to, and I consider represent the class of man commanding the careful consideration of the Council of the Pharmaceutical Society. I acquiesce in your remarks regarding the "Let them all come" idea which might prevail, but those who have taken interest cannot be misled in this respect. Did not Sir William Collins say in his remarks words to this effect: "That there were men of unquestionable ability and long experience holding the qualification of the Apothecaries' Society who logically and morally claimed recognition, seeing that Army and Colonial men were to be included"? After this the young successful candidates at the Hall cannot expect to walk across to Bloomsbury Square and obtain their qualification. No; it is now by legal enactment an item which claims recognition, and coupled with years of experience and other accomplishments relative to pharmacy is now entitled to receive attention from the Pharmaceutical Society of Great Britain.

Yours truly,

Plausible Applicant. (205/58.)

An "Unregistered Druggist's" Appeal.

Sir,—Seeing, by the various letters you from week to week insert in your well-known paper, that you at least have the wish to give fair play to all sides of the Act which is to come into force on April 1, may I ask you to allow me to say a few words *re* my own case? I am an unregistered chemist, the son of a registered chemist in a small country town. Though I was only about ten years of age in 1868, I used to assist my father in the business after school-hours. He unfortunately died when I was fourteen years of age,

and I was left the eldest of nine children. The business was carried on by registered managers, and I was apprenticed to a good country chemist, and, I may say, was fortunate enough to get a thorough training and grounding in the trade. I subsequently became assistant and manager to various chemists, and have for some years been in business for myself. I have never been fined, as I have always been careful to sell such articles as the law allows. I am a member of the London and Provincial Unregistered Druggists' Society, which only takes as members such men as myself, who have served some years in the trade under registered chemists, dispensers, and Apothecaries' Hall men, and who by their rule strictly keep to the law by only doing such business as they legally may. Our Society requested to be heard by the Parliamentary Joint Committee, and were informed that we stood a chance of being called up to state our case. We, however, were left out in the cold, with the grocer, the oilshop-man, and the porter or errand-boy who has managed to start a drug-store business. Now we have been all our lives brought up and trained to the drug-trade, and I may say in most cases the registered chemists have considered us qualified to work for them, but later, should we dare to start for ourselves, unqualified. The alterations about to be made in the Poisons Schedule, if carried out, bid fair to bring distress, and in many cases ruin, to many honest and careful men who have spent their life in the trade, and know no other business. Now I feel that the registered men (though they cannot approve of the limited drug-stores or the grocers and oilshop-men and others who have had but scant training) must feel that we at least have some right in the business. Consequently I suggest that:

The Pharmaceutical Society should allow such men as ourselves to be registered as drug-stores and pay a small registration-fee.

We should be allowed at least to remain in the position we were before this last Act.

The chemists' societies should recognise us and allow us to join their societies.

Those who have been many years in the trade should be allowed to pass a "Modified" examination, and be allowed to become, as many were in 1868, chemists and druggists.

I also think the registered drug-store men should be allowed to sell all patent medicines.

Yours respectfully,

London, February 9. Spes. (206/21.)

The New Pharmacy Act and Unregistered Men.

Sir,—How is Section 4 of the new Act to be made to operate for the benefit of the numerous body of unregistered men of, say, forty years of age? They are still actively employed in the retail drug-trade, having duly served an apprenticeship, and missed, through many causes, passing the Minor examination, but are still dependent on that trade for a livelihood and are thoroughly qualified by experience to do the duties either of branch manager or to manage during principal's absence.

I should like to hear the views of those who are similarly situated to myself. I served five years' apprenticeship with a pharmaceutical chemist, passed the Preliminary examination, then the Apothecaries' Hall examination, and went in for the Minor examination, but failed. I was then induced to take up with a manufacturing branch of the trade, which after a few years proved a failure, and I was again compelled to seek employment in the retail; the hours were long and no time for study. I filled the position of dispenser, etc., in some first-class businesses, giving every satisfaction, and for the last eight years as assistant, where I took entire charge in the absence of the principal for sometimes a week or more at once. I think it will be hard if some provision such as was made at the passing of the 1868 Act be not introduced, so that by paying the fee and giving satisfactory proof of our capability we may be allowed to earn a living in the short future left us. I understand that in the new Act there is power to make by-laws. Might I suggest that this be used for those who have spent the best part of their lives in the calling and to whom some protection should be given? I shall be glad to hear the opinion of others on this point.

Yours,

One Over Forty. (205/32.)

Incunabula.

Sir,—It would appear from what Mr. Maskew says of incunabula that this term is applied only to books printed from "wooden blocks and type." The fact is that all books printed before 1500 are classed as incunabula, or, I believe I should say, all books printed up to the end of 1500.

Yours truly,

C. C. Bell.

Curbing Co-operators.

Sir,—The annexed cutting from to-day's "Yorkshire Observer" may be of interest to chemists in districts where the co-operative system is extending:

Mr. S. Brearley, on behalf of the Batley Co-operative Society, Ltd., applied for a medicated-wine licence for their new chemist's department. Mr. C. E. O. Walker opposed the application on behalf of the Batley and District Chemists' Association on the ground of non-necessity. He pointed out that within a short radius of the Society's shop there were already four such licences, and urged that it would be monstrous to grant a fifth. The Bench refused the application on the ground of non-necessity.

It seemed rather a matter of surprise that anyone should dare to oppose such a powerful organisation as the Co-operative Society, but the successful result of the opposition is due largely to Mr. John Day, the President of the Dewsbury and District Chemists' Association, who initiated the movement, and with the approval of the Association instructed the solicitor, attended in court, and carried through the opposition. Mr. Day is to be commended and congratulated on the result of his energetic action on behalf of the chemists of the district, who already meet the requirements of the public in a complete and satisfactory manner.

Yours truly,

Batley, February 9. R. Broadhead.

Duty on Cocoa.

Sir,—Judging by speeches delivered in various parts of the Kingdom our attitude with regard to the duty upon cocoa is apparently misunderstood. We have never asked for protection on cocoa, and for many years no change has taken place in the duty. The duty on cocoa is raised for revenue and not for protective purposes. It is in the same category as the duty on tobacco, coffee, wines, etc. The duty differentiates between raw cocoa and manufactured cocoa, that upon raw cocoa being 1*d.* per lb. and that upon manufactured cocoa 2*d.* per lb. This difference is not primarily designed to give the home manufacturer an advantage, but to place him on an equality with the foreign competitor in the home market. In converting the raw material into manufactured goods there is a large loss resulting from the removal of imperfect beans, dust, outer husks, etc., and loss of weight in roasting. It is to allow for this wastage that the differential duty, as between the raw material and the manufactured product, is imposed. A similar differentiation exists in regard to tobacco, coffee, etc. On cigars double the duty is paid that is paid on unmanufactured tobacco, while on raw coffee the duty is 14*s.* per cwt. against 18*s.* 8*d.* per cwt. on roasted coffee. In each case there is a slight advantage to the British manufacturer. In the case of cocoa, it amounts to only 2 per cent., or something between one farthing and one halfpenny per lb. But even this advantage is counterbalanced by the absence of any rebate or drawback on exported cocoa. On every pound of manufactured cocoa we export we pay 1½*d.* duty, the halfpenny representing the difference between a pound of raw cocoa and a pound of manufactured cocoa. By the absence of drawback the home manufacturer is handicapped to the extent of nearly 6 per cent. in comparison with his foreign competitor in neutral markets. In Holland, for example, there is no duty on raw imported cocoa; in France and Germany drawback is allowed on exported cocoa. The existing duty upon cocoa only illustrates the difficulty of applying tariffs with absolute justice as between all the interests involved, and we are convinced that the removal of the present duty upon one of the important foods of the people would be a gain to the consumer, and would involve no loss to the manufacturer. We may add that we have consistently advocated for many years the abolition of the duty on cocoa as on other articles of food.

Yours truly,

Bournville, February 11. Cadbury Bros., Ltd.

Legal Queries.

Before submitting questions for reply in this section please refer to the "C. & D. Diary, 1909" for the following subjects: Income-tax, p. 220; Pharmacy Law and Poisons, p. 216, (abroad) p. 211; Spirit Laws, p. 229; Stamped Medicines, p. 221; Trade-marks, p. 194; Wines, Sale of, p. 231; and Legal matters generally, p. 233.

T. W. (203/38).—If the business is not owned by a chemist and druggist, it can, after March 31, be continued as before. Read the note in reply to "Cytas" in *C. & D.*, February 6, p. 243.

G. H. F. (204/10).—(1) The Board of Inland Revenue have not, as far as we are aware, withdrawn their ruling as to the sale of sweet spirit of nitre and other spirituous medicines by shopkeepers who are not chemists and who do not hold a spirit-licence. (3) The Poisons and Pharmacy Act does not repeal any exemption which wholesale dealers enjoy under Section 16 of the 1868 Act, and the title "wholesale druggist" may be continued by *bona-fide* wholesale dealers.

A. F. (204/13) had a perfect stranger as a purchaser of Fellows's syrup, which he refused to supply unless the stranger got someone known to him to testify in the poisons-book as required for a Part 1 poison. Thereupon the stranger told him that he had been in the habit of getting the syrup in many towns without this formality, and he upbraided "A. F.," telling him that he was "too officious," and so on. In the long run "A. F." managed to satisfy the stranger, but he points out that it is not surprising that some chemists infringe the law when others deliberately lead the way. [Such incidents are undoubtedly regrettable, but it must not be forgotten that until comparatively recently it was customary to treat Fellows's syrup as a Part 2 poison. "A. F.'s" complaint may serve to give prominence to the fact that Part 1 poisons should not be sold to unknown persons unless they are introduced by a person known to the seller.]

Ginger (204/11).—(1) Mr. White, a registered chemist, contemplates selling his business to Mr. Brown, his manager, who is unqualified. Can Mr. Brown continue to carry on the business as "Brown's Drug-stores" if he refrains from selling and dispensing poisons, and does not use any Pharmacy Act titles? [Yes.] (2) Would it be allowable to use the following: "John Brown (late White), First-class Drug-stores"? [Yes.] (3) Would using White's name in conjunction with Brown's be any infringement of the new Act? [No.] (4) In the case of proprietary articles, such as White's cough-cure, could Brown sell these as "White's Cough-cure, etc., prepared by John Brown, late White (First-class Drug-stores)," provided that they contain no scheduled poison? [Yes.] (5) On the outside of White's shop there is a brass containing these words: "Green. Prescriptions dispensed. Pure drugs." Evidently Green was a former tenant; the brass has been in position for about twenty-five years. Whether Green is dead or alive is not known. No dispensing is done. Will retaining the brass be any infringement? [No.] (6) There is also on the sun-blind this wording: "White's First-class Drug-stores." Must that be removed in the event of Brown becoming the owner of the business and tenant of the premises? [Not necessarily.]

F. M. (203/45).—An application to register a name, signature, or word or words under paragraph 5 of Section 9 of Trade-marks Act, 1905, must be made on the form TM. No. 5, and not otherwise. Note that your mark may fall under one of the Classes 1 to 4, in which case form TM. 2 has to be used, and not TM. 5.

D. (202/50).—There is nothing in the Licensing Acts to prevent a person holding two or more wine-licences in his own name.

Scott (205/11).—An individual chemist in Scotland trading under a firm name may use the title "pharmacist"; it is firms and partnerships in Scotland only which may not use that title, or "pharmaceutical chemist," or "pharmaceutist," even although each of the partners is a pharmaceutical chemist.

Jaborandi (206/16).—The corn-silk envelope is exempt from duty on account of the reference on it to "Pharmaceutical Formulas." The number of the formula should, however, have been stated, but the medicinal ingredients are the same in all cases, and this may pass the envelope.

Interested (206/14).—The Poisons Schedule (with addition of the provisions of Clauses 2 and 5 of the new Act) and the supplementary list to which you refer has been reprinted on a card with cord to hang up, and can be obtained from our office for 6*d.*, post free. The cards are "selling like hot cakes in winter." Your suggestion as to a Part III. is virtually met by the card, but it is not wise to use law-like terms such as Part III. for what is not actually in the statute.

Lindum (187/36).—Perhaps you may be able to dispose of the engraved syphons through our Exchange Column, but you would require to give the purchaser an assurance that they are your property. If the syphons bear the name of any well-known maker the sale may lead you into legal difficulties, and it is advisable, in such a case, to write to the original owners.

H. N. L. (147/23).—If the business to which you refer has been left to you in trust it can be carried on under the conditions of Section 16 of the 1868 Act and, after March 31, under Section 3 (2) of the 1908 Act, but this can only be done so long as the estate is under administration. If a chemist's business is left by will to an unqualified person, and duly transferred to that person, he cannot carry it on under Section 16 conditions.

Staphis (191/66).—(1) All preparations or admixtures of substances mentioned in our supplementary list of poisons fall within the parts of the Schedule indicated by the figures in parentheses. Most of them are already included, but the alterations in the Schedule have brought in others. (2 and 3) Stavesacre of itself is not a scheduled poison, but admixtures or preparations of stavesacre contain poisonous vegetable alkaloids and, in consequence, are included in Part 2 of the Schedule; therefore, nursery pomade or nit ointment made of stavesacre by digesting the seeds in a base will, after March 31, be a Part II. poison.

X. Y. Z. (32/9).—(1) See reply to "Staphis." (2) After March 31 all oxides of mercury will be Part II. poisons. Lotio hydrarg. nigra contains mercurous oxide (or hydroxide), and by the terms of the "All preparations or admixtures" paragraph the lotion is in Part II., unless the principle "De minimis non curat lex" applies. (3) Tincture of gelsemium has not hitherto been treated as a scheduled poison, and accordingly we have not included it in our supplementary list, leaving it to the administrators of the Act to determine whether or not it should be so regarded. The tincture can only be included in the schedule on the ground that gelsemine is a poisonous vegetable alkaloid.

Scott (196/74).—The superintendent of a company may manage one of its branches or the principal shop. The exact duties of the superintendent are sufficiently defined by Section 3 (4A). He has complete control of the keeping, retailing, and dispensing of poisons, just as if he were the owner of the business.

Citas (206/22).—The judgment in the Rankin's Ointment case was reported in the *C. & D.*, December 23, 1905, p. 991. The hearings in the lower court may be regarded as immaterial, as the facts are concisely embodied in the statement of the case included in the report.

Dentifrice (198/56).—You appear to have sufficient evidence to refute any claim for payment for the goods which have been returned. There is little use your troubling further in the matter, the fact that you hold the railway company's letter advising delivery of the case is good evidence that there is no further claim upon you.

Revod (202/41).—The decision of the High Court in the Barnes *v.* Brown case makes it imperative upon unqualified persons to take care how they describe their businesses. The first paragraph of your description, namely, "experience gained during many years of practice, and our clients may rely on the work we undertake being most satisfactorily executed" is one that almost courts trouble, but whether it is within the Barnes *v.* Brown decision or not can only be determined by a Judge.

G. E. O. (196/34).—(1) No case in which the Pharmaceutical Society has proceeded against registered chemists and druggists for exhibiting the title "pharmacist" has come into Court. Everyone who has been challenged on the use of the title has stopped the offence. (2) It has been stated by the President of the Pharmaceutical Society that the Council is considering what action (if any) may be taken against unqualified persons and companies who use the word "pharmacy" as a description of their premises. (3) All pharmaceutical chemists are chemists and druggists within the meaning of the Pharmacy Act, 1868.

Subscriber (207/25) puts the following: "A" has a picture and pamphlet, written in native character, which he wishes reproduced and printed, and has an introduction to "B," to whom he gives the work. "B" gives a written order to "C" for the goods, and has the duplicate signed by "C's" traveller, to whom "B" then hands the "copy." "C's" traveller loses all the "copy," which it is impossible to reproduce in time, if at all. Can "B" recover from "C" the amount of his profits—*i.e.*, the difference between the price he bought at and the price he sold for? [We are of opinion that "B" is entitled to recover from "C" damages for breach of contract, which damages would be the difference between the price he was paying "C" and the price he was charging "A," but "B" himself would appear to be liable to "A" for the loss of the "copy."]

Miscellaneous Inquiries.

We endeavour to reply promptly and practically to trade questions of general interest, but cannot guarantee insertion of replies on a particular date, nor can we repeat information given during the past twelve months. A preliminary condition for reporting on samples submitted is that all particulars as to source and uses are given to us.

F. K. R. (178/19) asks for the formula for the Army pill known as "No. 9." Can any reader oblige?

C. H. C. F. (169/73).—Weed-killer in powder form:

White arsenic	1 lb.
Caustic soda in powder	½ lb.
Dried sodium carbonate	½ lb.
Prussian blue	1 dr.

Mix.

Caustic soda alone is quite as efficacious. It is supplied in tins, a pound being dissolved in 10 gals. of water and used for watering the garden-paths. Formulæ for liquid weed-killers are given in reply to "Embro."

J. M. (180/7).—Meat-preserving Powder.—This is usually equal parts of borax and common salt, or the following may be employed:

Borax	10 oz.
Boric acid	1 oz.
Common salt	6 oz.

To use the preserving powder it is sifted on the surface of the meat and then rubbed in. The proportion is about ½ lb. of powder to 100 lb. of meat.

Rip (179/62).—The usual method of disinfecting an air-cushion or water-bed is to wash it well with 20-per-cent. carbolic soap.

G. G. W. (178/11).—Sweet Spirit of Nitre Substitute:

Sodium nitrite	ʒij.
Old sweet spirit of nitre	℥ij.
Glycerin	℥ij.
Water	℥xvj.

Mix and dissolve.

The dose is the same as of spt. æther. nitrosi. This can be sold by grocers and other shopkeepers as a substitute for sweet nitre, which they may not legally sell.

J. B. T. (186/59).—One-solution Hair-dye.—See *C. & D.*, October 3, 1908, p. 567. The lighter tints are obtained by diluting the liquid.

T. A. R. (143/39).—Ear-drops for "running" ears.—These generally contain an astringent and an antiseptic. A simple recipe is:

Glycerini ac. borici,
Alcohol (30 per cent.) aa. partes æquales

W. P. K. (140/12).—We are not acquainted with the sheep-remedy known as "Specific."

Embro (164/71).—(1) Concentrated Weed-killer.—Several recipes for this are given in "Pharmaceutical Formulas." We give for your choice formulæ for a poisonous and a non-poisonous liquid, reminding you that it has been demonstrated by Mr. J. R. Hill that arsenic is not in itself a weed-killer, that property depending on the caustic alkali or acid with which it is always compounded.

I.

Arsenious acid	4 lb.
Caustic soda (70-per-cent.) ...	4 lb.
Water	4 gals.

Boil until solution is effected and colour with sulphate-of-copper solution.

II.

Hydrochloric acid	2 parts
Water	3 parts

Mix.

Directions: Mix a pint of either of the above liquids with a pailful of water for use as a weed-killer.

(2) The liniment formula you submit is not, we think, intended to make an inseparable liquid. It readily shakes up, and is an excellent liniment.

S. R. C. (184/42).—Carbolised Collodion.—This is generally made by mixing equal parts of collodion and phenol (melted at a low temperature). Some part of the phenol often remains liquid, but this seems to be unavoidable in certain circumstances. A variety of toothache-jelly which is preferred in some parts of the country is made by mixing menthol 15 grains, oil of cassia 2 minims, aniline red a trace, with each ounce of collodion before adding to the phenol.

Pea (188/23).—We have not the formula you require.

R. H. W. (189/6).—Thin glue is employed for affixing baize to the wooden tops of tables.

J. J. K. (181/19) sends the following recipe which he has recently been asked to prepare. It is said to be a Stimulating Hair-grower, and the customer stated that the formula was obtained in California:

Bay rum	16 oz.
Quinine sulphate	1 oz.
Oil of rosemary	½ oz.

Mix.

Made up as it stands, this yields a thick product, and quinine applied in this way is not likely to effect any useful purpose. If the quantities of the last two ingredients are translated into drachms, a reasonable formula results. It is possible that some mistake has been made in transcribing the recipe, and if the position is explained to the customer, no doubt a compromise, as suggested above, may be effected.

Z. A. B. (189/40).—General Cough-mixture.—The following recipe, which may be quoted as "P. F. 194" on the label (as a "known, admitted, and approved" remedy), is from "Pharmaceutical Formulas," and answers your requirements:

Vin. ipecac.	℥iss.
Sp. æther. nit.	ʒj.
Liq. rosæ dulc.	℥j.
Oxy. scillæ,	
Syr. tolut. aa. pt. æq. ad	ʒxxxvj.

Misce.

Dose for adults, one to two teaspoonfuls three times a day; for children, five to thirty drops.

We may add, however, that it is found best in practice to run two cough-mixtures, one adapted for adults and the other specially for children. The reason for this will be obvious to you.

W. G. Y. (188/63).—(1) Ovary-tonic for Poultry.—Syrup of ferrous chloride is given for this purpose. The recipe was given in the *C. & D.*, November 21, 1908, p. 807. (2) Roup-mixture.—As mentioned in the *C. & D.*, December 26, 1908, p. 984, the usual mixture for roup in fowls is mistura creosoti. The formula employed is that of the B.P. 1885, as follows:

Creosote	16 minims
Acetic acid	16 minims
Spirit of juniper	½ dr.
Syrup	1 oz.
Distilled water	15 oz.

Mix.

Doses of a teaspoonful during the day are given to each fowl.

W. J. (190/16).—Opalescent Ammonia.—Martindale's formula for this is: Dissolve Castile soap 1.3 in water 60, and add strong solution of ammonia 27, lime-water 0.6, tap-water to 100.

D. A. J. (195/65).—We are putting you into communication with a maker of ultramarine blue.

Commencer (195/57) should get our last Educational Number (August 15, 1908) and read it.

Up Idris has not sent his name and address, as required by the rules of these columns.

E. G. Jones (197/41).—"Noct o." in the last prescription-problem was an obvious misprint for "noctes."

Cud (196/13).—Cud Balls and Powders.—The following are good formulæ for powders, and either of them can be made into balls with gentian extract:

Sodii bicarb.		ʒss.
Sodii chlorid.		ʒss.
Pulv. zingib. et gentianæ ...	aa.	ʒij.
Pulv. nucis vom.		ʒj.

Fiat pulvis.

One three times a day.

Ammonii carbonat.		ʒij.
Pulv. nucis vom., zingib., et gentianæ	aa.	ʒj.

Fiat pulvis.

One every six hours.

Soda Carb. (12/98).—Thanks for yours *re* Priestley. It is generally known that he was as eminent as a theologian as he was as a chemist.

H. C. R. (120/68).—Acetyl-acetic acid would be of little use in combination with phenacetin and caffeine as a headache-powder; even sodium salicylate is of little service in that respect, except in certain kinds of headache. You should stick to the phenacetin and caffeine alone.

Scoparius (184/9).—Thanks for your letter and cutting, which were duly received.

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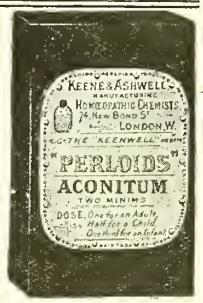

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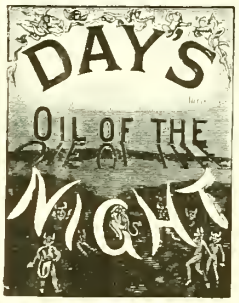

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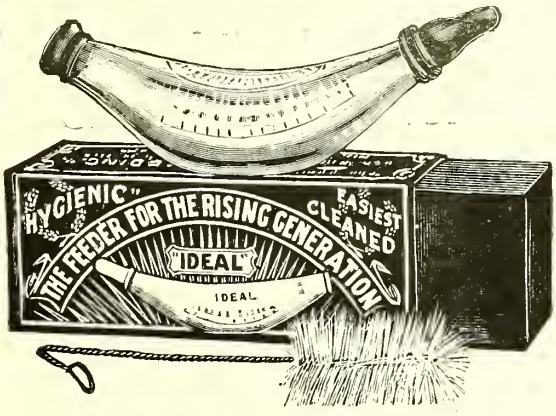

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Bals. Copaibæ pure, 44 lbs. @ 2/3 lb.; 9 lbs. @ 2/5 lb.; 1 lb. @ 2/9 lb.

Bismuth. P.B. Carb., 28 lbs. @ 7/7 lb.; 7 lbs. @ 7/10 lb.; 3 lbs. @ 8/1 lb.; subnit., 1/- lb. less.

Bole Armenian, 5 cwt. @ 5/6 cwt.; 1 cwt. @ 6/6 cwt.; 7 lbs. @ 2d. lb.

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Licorice Juice, 4 and 2 oz. Sticks, 5 cwt. @ 57/- cwt.; 1 cwt. @ 58/- cwt.; 28 lbs. @ 7*d.* lb.; 7 lbs. @ 7½*d.* lb.

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Ol. Olivæ, P.B., good yellow, 46 galls. @ 5/- gall. 2 galls. @ 5/6 gall.

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*Sp. Ammon. Aromat. P.B., 5 lbs. @ 2/1½ lb.

*Spt. Æther Nit. P.B., 4½ lbs. @ 2/9 lb.; 1 lb. @ 2/10½ lb.

Sugar of Milk, B.P., 1 cwt. @ 48/- cwt.; 7 lbs. @ 7d. lb.

Sulphur Præcip. P.B., 1 cwt. @ 32/- cwt.; 7 lbs. @ 4 l. lb.

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*Tinct. Belladon. B.P., 5 lbs. @ 2/4 lb.; bond, 6½ l. lb.

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*Tinct. Cantharidis, P.B., 5 lbs. @ 3/- lb.; bond, 6 l. lb

*Tinct. Capsici B.P., 5 lbs. @ 2/8 lb.

*Tinct. Card. Comp. P.B., 5 lbs. @ 1/11 lb.; bond, 6d. lb.

*Tinct. Catechu P.B., 5 lbs. @ 2/1 lb.; bond, 7½ l. lb.

*Tinct. Chlorof. c. Morph. Comp. B.P. 1885, 5 lbs. @ 1/10 lb.; bond, 1/5½ lb.

*Tinct. Cinchon. Comp. B.P., 5 lbs. @ 2/9 lb. bond, 10½ l. lb.

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Cocaine Hydrochlor, P.B., 25 oz. @ 7/6 oz.; 1 oz. @ 8/- oz.

Cream Tartar, 98 % powder, 1 cwt. @ 76/- cwt.; 7 lbs. @ 9d. lb.

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Dragon's Blood, English Ground, 1 cwt. @ 1/10½ lb.; 7 lbs. @ 2/-½d. lb.

Ess. Lemon (Oil), Original Coppers, 12 lbs. @ 4/9 lb.; 6 1-lb. bots. @ 5/3 lb.; not guaranteed absolutely pure. [1/1 lb.

Ext. Cascaræ Sagradæ, Liq. B.P., 10 lbs. @

Ext. Ergot. Liq. P.B., 5 lbs. @ 2/8 lb.; 1 lb. @ 2/10 lb.

***Ext. Nucis Vom. Liq. B.P.,** 5 lbs. @ 2/6 lb.; 1 lb. @ 2/9 lb.; solid 4d. lb. extra.

Hexamethylentetramine, 7 lbs. @ 2/2 lb.; 1 lb. @ 2/4 lb.

Hydrargyrum P.B., 75 lb. bottle @ 167/-; 10 lbs. @ 2/5 lb.; 1 lb. @ 2/9 lb.; Amon., 7 lbs. @ 3/- lb.; c. Creta, 7 lbs. @ 1/5 lb.; Iodid. Rub., 7 lbs. @ 8/8 lb.; Oxid. Rub., 7 lbs. @ 2/11 lb.; Perchlor. 7 lbs. @ 2/4½ lb.; Subchlor., 7 lbs. @ 2/8½ lb.; Sulph. c. Sulph., 7 lbs. @ 2/6 lb. 3-lb. quantities 1d. lb. extra, 1 lb. quantities 2d. lb. extra.

Hydrokinone, 7 lbs. @ 3/9 lb.; 1 lb. @ 4/- lb.

Ol. Ricini Alb. Opt. Medicinal, 176 lb. @ 33/6 cwt.; 88 lb. @ 36/6 cwt.; 44 lb. @ 38/- cwt; 9 lbs. @ 5½*d.* lb.

Ol. Santali Flav. Ang. B.P., 5 lbs. @ 10/9 lb.; 1 lb. @ 11/3 lb.

„ Sinapis Express., 1 gall. tins @ 4/6 each.

Oxymel Scillæ, B.P. 5 cwt. @ 27/- cwt.; 1 cwt. @ 30/- cwt.; * 7 lbs. @ 6d. lb.

Phenacetin, P.B., pulv. 1 cwt. @ 2/8 lb.; 7 lbs. @ 2/10 lb.; 1 lb. at 3/- lb.

Phenazone. P.B., 7 lbs. @ 7/- lb.; 1 lb. @ 7/6 lb

Plumbi Acetas, Druggists' powder, 1 cwt. @ 35/6 cwt.; 7 lbs. @ 4½*d.* lb. [@ 1/1 lb.

Potas. Acetas. Gran. P.B., 28 lb. @ 1/- lb.; 7 lbs.

Potas. Brom., P.B., 1 cwt. @ 11*d.* lb.; 28 lbs. @ 11½*d.* lb.; 7 lbs. @ 1/- lb.

Potass. Cit., B.P., 7 lbs. @ 1/6 lb.

Potass. Iod. P.B., 1 cwt. @ 7/9 lb.; 14 lbs. @ 7/10 lb.; 3 lbs. @ 7/11 lb.

Pulv. Glycyrrh. Co. B.P. (Green), English Ground, 56 lbs. @ 31/- cwt.

Quininæ Hydrobromas or Hydrochlor. B.P., 100 oz. @ 11½d. oz.; 25 oz. @ 1/0½ oz.; 10 oz. @ 1/2 oz.

Quininæ Sulph., P.B., 1,200 oz. @ 6 d. oz.; 100 oz. @ 6½d. oz.; 25 oz. @ 7 d. oz.; 10 oz. @ 8d. oz.

Rad. Rhei, E. I., English ground, 1 cwt. @ 1/2½ lb.; 28 lbs. @ 1/3½ lb.; 7 lbs. @ 1/5 lb.

Sang. Draconis pulv., English Ground, 1 cwt. @ 1/10½ lb.; 7 lbs. @ 2/-½d. lb.

Shellac (Orange), 1½ cwt. @ 88/- cwt.; 7 lbs @ 1/- lb. [1/2 lb.

Sodii Bromid. P.B., 1 cwt. @ 1/-½ lb.; 7 lbs. @

Soda Salicyl. pulv., 1 cwt. @ 1/5 lb.; 28 lbs. @ 1/6 lb.; 7 lbs. @ 1/7 lb.; pbys. pur., 28 lbs. @ 2/2 lb.; 1 lb. @ 2/5 lb.

*Tinct. Iodi B.P., 5 lbs. @ 3/2 lb.; bond, 1/1½ lb.; decolor, 5 lbs. @ 3/6 lb.

*Tinct. Lavandulæ Comp. B.P., 5 lbs. @ 3/- lb.; bond, 6½d. lb. [9d. lb.

*Tinct. Myrrhæ B.P., 5 lbs. @ 3/- lb.; bond,

*Tinct. Nucis Vom. B.P., 5 lbs. @ 2/3 lb.; bond, 5¾d. lb.

*Tinct. Opii B.P., 5 lbs. @ 2/7 lb.; bond, 1/11 lb.

* „ Opii Amon. B.P., 5 lbs. @ 3/8 lb.

* „ Opii Aquos, 5 lbs. @ 2/1 lb.

* „ Quiniæ Amm. B.P., 5 lbs. @ 2/2 lb. bond, 11d. lb.

*Tinct. Rhei Co. B.P., 5 lbs. @ 1/9 lb.; bond 8d. lb.

*Tinct. Scillæ B.P., 5 lbs. @ 2/1 lb.

* „ Senegæ P.B., 5 lbs. @ 2/8 lb.; bond, 1/3½ lb.

*Tinct. Stropbanth. P.B., 5 lbs. @ 2/10 lb.; bond, 8d. lb.

*Tinct. Valerianæ. 5 lbs. @ 2/3 lb.; bond, 6d. lb.

*Tinct. Valerianæ Ammon. P.B., 5 lbs. @ 2/6 lb.; bond, 8½d. lb.

*Tinct. Zingib. P.B., 5 lbs. @ 3/1 lb.; bond, 6½d. lb.

*Tinct. Zingib. Fortior, 5 lbs. @ 3/5 lb.; bond, 10½d. lb.

Treacle (Black), 5½ cwt. @ 10/- cwt.; 24 lbs. @ 2d. lb.

Ung. Acid. Boric. P.B., 28 lbs. @ 6½d. lb.; Flav. 28 lbs. @ 4½d. lb.

„ Acid Carbol. B.P., 28 lbs. @ 8d. lb.; 7 lbs. @ 9d. lb.; 1 lb. @ 11d. lb.

„ Gallæ P.B., 7 lbs. @ 10d. lb.; 1 lb. @ 11d. lb.

c. opio, 7 lbs. @ 2/2 lb.

„ Hydrargyri B.P., 28 lbs. @ 1/8 lb.; 7 lbs. @ 1/9½ lb.

*Minimum quantity at these prices, Home Trade, 3 Winchester Quarts assorted. Export, 12 Winchester Quarts assorted.

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Pil. Aperient (Little) (Aloin, Jalapin, aa. gr. 1-10; Podophyllin gr. 1-5; Ext. Hyoscy., Ext. Nucis Vom., Capsicin, aa. gr. 1-20) .. .. **2d.** *per gross.*
Pil. Back and Kidney (Oval) Gelatine-coated (Ext. Buchu, Ext. Uvæ Ursi, Pulv. Capsici, aa. gr. ⅓; Ol. Juniper., ♏ ⅓: Pulv. Pot. Nit., gr. j.; Podophyllin, gr. ⅙; Tereb. Venet., gr ½ .. .. **7d.** *per gross.*
Pil. Castor Oil (Ol. Ricini. gr. ½; Pot. Sulph., gr. 1½; Pulv. Rhei, gr. ij; Sapo Hyspan., gr. ½: Ol. Crotonis, gr. 1-16) .. .. .. **2d.** *per gross.*
Pil. Calcii Sulphid., gr. ⅛, ¼, or 1 .. .. **2½d.** *per gross.*
Pil. Coloc. Co., B.P. .. .. **5⅔d.** *per gross.*
Pil. Coloc. et Hyoscy., B.P. .. .. **5½d.** *per gross.*
Pil. Dandelion and Camomile (Ext. Taraxaci, Ext. Anthem, Pulv. Rhei, aa. gr. j.; Pulv. Zingib., Pulv. Aloes Barb., aa. gr. ½; Ol. Carui, gr. ¼) **2½d.** *per gross.* **9/6** *per 100 gross.*
Pil. Ferri Co., B.P. .. .. **7d.** *per gross.*
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Pil. Ipecac. et Scillæ, B.P. .. .. **3d.** *per gross.*
Pil. Neuralgic (Quineti, Ferri Sulph., aa. gr. ⅓; Ext. Bellad., gr. ¼; Ext. Colchici Acet., gr. ½; Hyoscy, Camphoræ, aa. gr. j.) .. **8d.** *per gross.*
Pil. Podophyllin (Podophyllin gr ¼; Ext. Coloc. Co., gr. ½; Pulv. Aloes Socot., gr. j.; Pulv. Scammon., gr. ¼; Sapo Hyspan., Ext. Hyoscy., Gingerine, aa. gr. ⅛ .. .. **5d.** *per gross.*
Pil. Quinine, gr. j. .. .. **5½d.** per gross.
Pil. Quinine, gr. ij .. .. **9d.** *per gross.*
Pil. Rhei Co., B.P. .. .. **2d.** *per gross.*
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	Advertised Price.	Minimum Retail Price.	Minimum Wholesale Price to Retailers.	Minimum Price to Wholesale Dealers.	
"Linseed Compound"	9½d.	9½d.	8/1	8/6	For £5 assorted orders 5 per cent. discount, and an additional 5 per cent. for prompt cash.
	13½d.	1/–	10/–	10/6	
	2/9	2/6	25/8	27/–	
	4/6	4/–	40/–	42/–	
	11/–	10/–	104/6	110/–	
Kay's Tic Pills	9½d.	9½d.	8/1	8/6	For £50 assorted orders 5 per cent. discount, and an additional 10 per cent. for prompt cash.
	13½d.	1/–	10/–	10/6	
	2/9	2/6	25/8	27/–	
Mountain Flax ("Linum Catharticum") Pills	9½d.	9½d.	8/1	8/6	
	13½d.	1/–	10/–	10/6	
	2/9	2/6	25/8	27/–	
Kay's Throat Lozenges	9½d.	9½d.	8/1	8/6	
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Look Here!

We are going to make ours also a big business. We can only do this if you assist. Not otherwise. But when we have made ours a big business there will be this difference in your relation to it. You will be part proprietor. We propose that they who contribute to our prosperity shall share that prosperity.

As Follows:

We are going to set aside 50% (fifty per cent.) of our trading profits for division among our supporters. You may apply your share of the profits towards becoming part proprietor. Or you may have the cash.

But—Remember

We do not promise large profits. You cannot have low prices for your goods and large profits at the same time. But 50% of such profit as we do make shall be apportioned among you.

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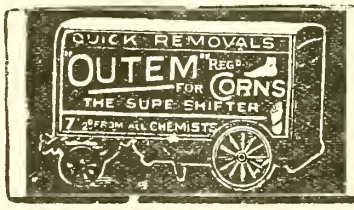

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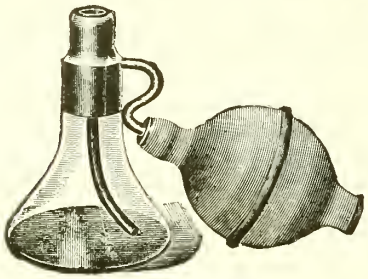

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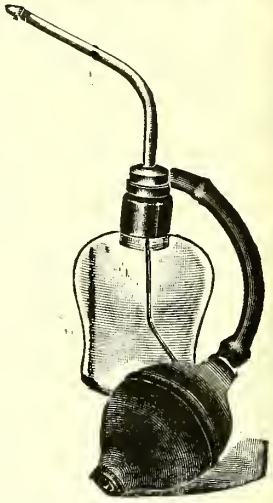

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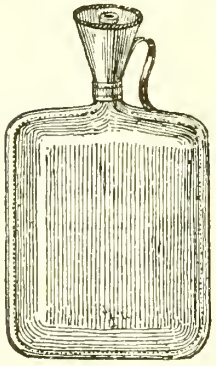

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Inches.	Patent Safety Stoppers.	Ordinary Stoppers.
10×6	3/6 each	3/- each.
10×8	3/9 ,,	3/6 ,,
12×8	4/3 ,,	3/9 ,,
12×10	5/- ,,	4/4 ,,
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14×8	5/- ,,	4/4 ,,
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Patent Stopper ... ... @ 4/6 lb.
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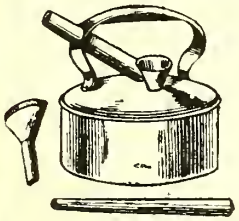
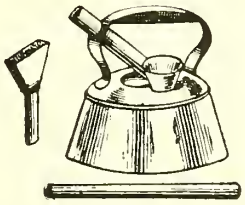


246

2½ 3½ 5 7 pint
10/6 13/- 16/- 20/- doz.



250

Oval 3 pint **2/6** each
,, 4 ,, **3/-** ,,

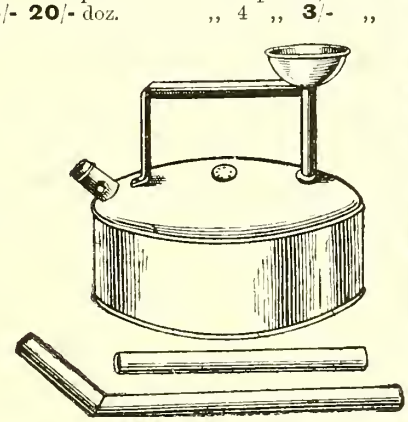
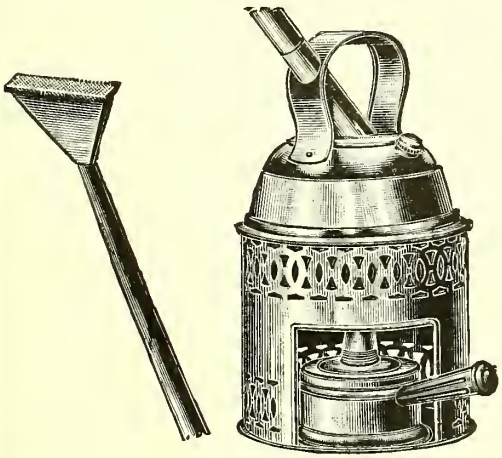


FIG. 247

Toogood's Patent

3/3 each



1750

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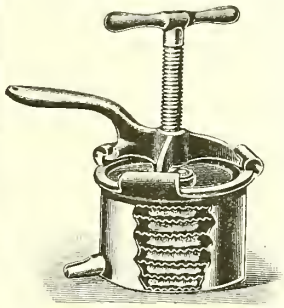

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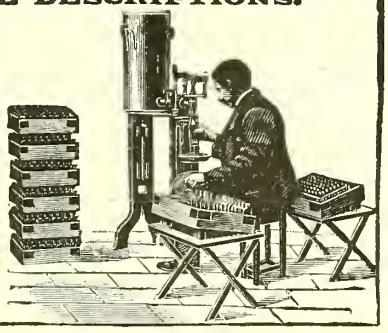

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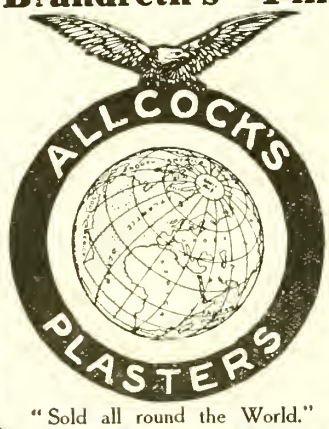

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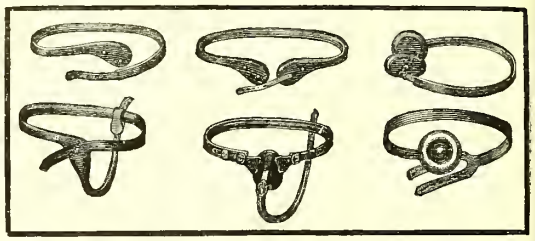

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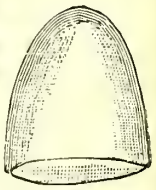

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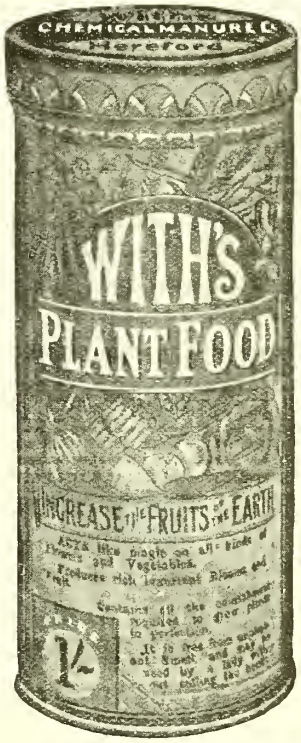

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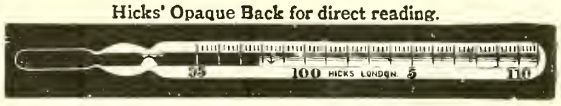

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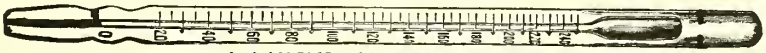

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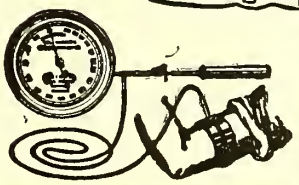

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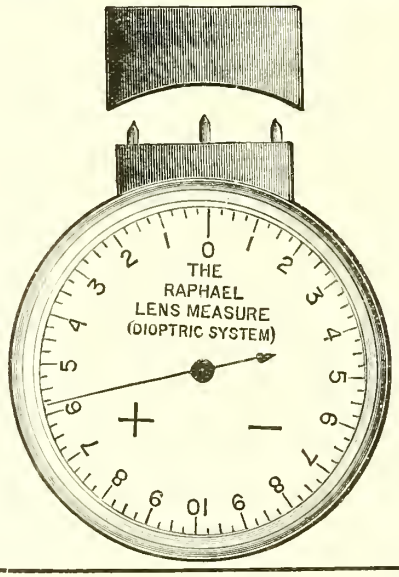

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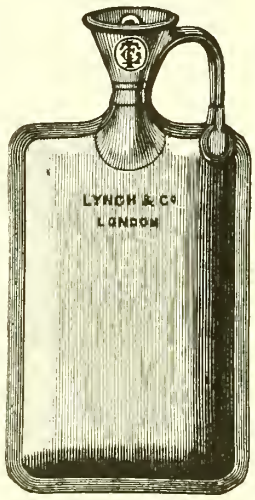

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